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# AMERICAN SURVIVAL GUIDE

THE MAGAZINE FOR SAFER LIVING

AUGUST 1987 VOL. 9 NO. 8  
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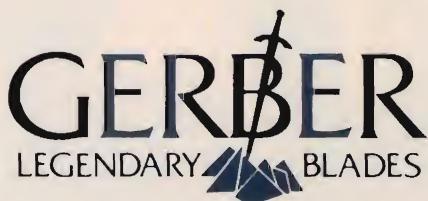


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# AMERICAN SURVIVAL GUIDE

THE MAGAZINE FOR SAFER LIVING

VOLUME 9, NUMBER 8 AUGUST 1987

**COVER:**

Beretta's Model 70 weapon system, available in semiauto and full-auto versions, offers plenty of .223 firepower. Shown here is the AR 70 assault rifle with **ammo tested** in it. Background is a mock gun emplacement at Lake Elsinore Sportsmen Association, Lake Elsinore, California. See page 26 (Photo by Jim Benson and Bud Lang).

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# SURVIVAL SELF TEST

By Glenn A. Anderson

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The .45 Automatic Colt Pistol, in all of its variations, has been with us since the turn of the century. It has seen many improvements and modifications. It has had over a half-dozen different manufacturers in war time. It is perhaps the world's most imitated handgun. It is as familiar as mom, apple pie, and the American flag. The question is, what do we really know about it? This is the moment of truth. This month's Self Test has been compiled from a variety of resources, including manufacturer's

literature, military manuals, firearms catalogs and past issues of *American Survival Guide*, in selecting information upon which to test your knowledge of this venerable sidearm. Those seeking a single authoritative source of information are referred to *Colt Automatic Pistols* by Donald B. Bradley. Test yourself, then dust off your old training manuals and study those areas where the Self Test has revealed your weaknesses.

1. Fully loaded, the .45 ACP, in its service configuration, weighs in at.
  - A. 28 oz.
  - B. 39 oz.
  - C. 48 oz.
  - D. 52 oz.
2. The .45 ACP service pistol is recoil operated, magazine fed, and.
  - A. Single-shot.
  - B. Semi-Automatic.
  - C. Full-Automatic.
  - D. Selective-fire.
3. The manufacturer's specified rate of fire for the .45 ACP is.
  - A. 5 shots per second.
  - B. 10 shots per second.
  - C. 15 shots per second.
  - D. 20 shots per second.
4. When fully loaded, the standard .45 ACP magazine holds how many cartridges?
  - A. Six.
  - B. Seven.
  - C. Eight.
  - D. Nine.
5. The three main parts of the .45 ACP are the.
  - A. Lock, stock, and barrel.
  - B. Receiver, barrel, and slide.
  - C. Grip, barrel, and magazine.
  - D. Stock, slide and receiver.
6. The maximum effective range of the .45 ACP is generally considered to be.
  - A. 25 yards.
  - B. 50 yards.
  - C. 75 yards.
  - D. 100 yards.
7. When putting a loaded magazine in the .45 ACP, you should insert the magazine with.
  - A. the slide rearward in every case.
  - B. the slide forward in every case.
  - C. a quick, continuous movement.
  - D. a sharp slap on the bottom to drive it home.
8. When fully loaded, the .45 ACP should be carried in what condition?
  - A. Down and locked.
  - B. Up and unlocked.
  - C. Half-cocked and unlocked.
  - D. Fully cocked and locked.
9. The .45 ACP is prevented from firing until the barrel and slide are fully locked by a/an.
  - A. Safety lock plunger.
  - B. Automatic disconnector.
  - C. Mainspring housing.
  - D. Slide stop manipulator.
10. The proper procedure for releasing the slide of the .45 ACP from the open position is to.
  - A. Press the slide stop thumb piece downward.
  - B. Press the slide stop upward while holding the slide back.
  - C. Press the grip safety inward while letting the slide go.
  - D. Press the hammer strut rearward.
11. When the trigger is pulled, discharging a round in the .45 ACP, what is the next sequence of events?
  - A. Unlocking, cocking, extracting, ejecting, feeding and locking.
  - B. Loading, feeding, chambering, and locking.
  - C. Cocking and locking, feeding and unlocking.
  - D. Unlocking, ejecting, feeding and locking.
12. What prevents the barrel of the .45 ACP from unlocking before the bullet leaves the muzzle?
  - A. The barrel-locking widget.
  - B. The slide-catch trivet.
  - C. The length of the barrel plus the length of the slide.
  - D. The weight of the barrel plus the weight of the slide.
13. The rearward motion of the receiver of the .45 ACP is stopped by a.
  - A. Spiral recoil spring.
  - B. Rectangular receiver block.
  - C. Tubular abutment.
  - D. Elliptical bushing.
14. When the last cartridge has been expended from the .45 ACP, the slide is held open by a.
  - A. Slide stop.
  - B. Magazine catch.
  - C. Receiver retainer.
  - D. Recoil catch.
15. How many tools, if any, does it take to field strip the .45 ACP?
  - A. One, a screwdriver.
  - B. One, a cartridge.
  - C. Two, a hammer and a drift-pin.
  - D. None.
16. The first thing that one should do when field stripping the .45 ACP is to.
  - A. Lock the magazine catch.
  - B. Engage the slide stop.
  - C. Press the thumb safety.
  - D. Remove the magazine.
17. When assembling the receiver and the slide of the .45 ACP, the safety lock should be in what position?
  - A. Semi-auto.
  - B. Full-auto.
  - C. Safe.
  - D. Fire.
18. Military surplus cartridges for the .45 ACP, which are marked M26, are meant for use as.
  - A. Training cartridges.
  - B. Armor piercing cartridges.
  - C. Tracer cartridges.
  - D. Anti-personnel cartridges.
19. Using a factory load, and a 230 grain bullet, the .45 ACP will develop what velocity at the muzzle?
  - A. 550 f.p.s.
  - B. 700 f.p.s.
  - C. 850 f.p.s.
  - D. 900 f.p.s.
20. Though the military trend has been away from the .45 ACP, and toward the 9mm, ACP owners can rejoice because.
  - A. The ACP is also available in 9mm.
  - B. Foreign made pistols are always better.
  - C. The 9mm pistol is a more powerful handgun.
  - D. It takes less of a real man to handle the 9mm.

## SCORING:

For each Survival Self Test question answered correctly, score yourself 5 points. Then add them up. If your total is:

Below 70 Tyro

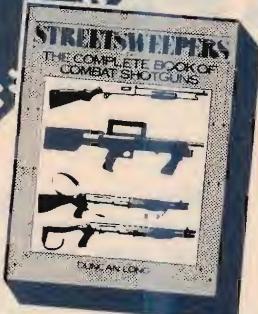
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90-100 Expert

ANSWERS:  
1-C 2-B 3-A 4-B 5-B 6-B 7-C 8-D 9-B 10-A 11-A 12-D 13-C 14-A 15-D 16-C 17-D 18-C 19-C 20-A

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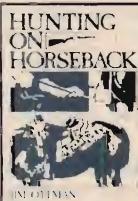
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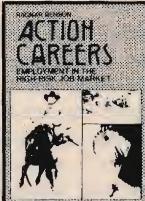
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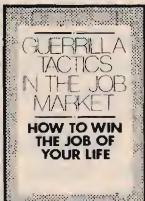
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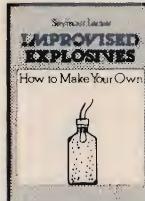
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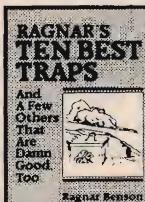
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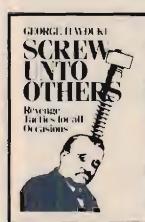


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Donald B. Clough  
Joe K. Falkenberry  
Max Klinghoffer  
Martin Kruse  
Robert S. McKay  
Robert A. Micciche  
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Jerry Younkins  
Joe Zambone

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Cynthia MacFarlane

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G. Wm. Tietgen

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# TO THE POINT

## *Sunlight and your health—you may need more than you're getting . . .*

**T**HIS being the summer season, the time of maximum sunlight for us here in the Northern Hemisphere, I thought it appropriate to discuss briefly some recent scientific and medical research findings concerning the beneficial health effects on humans of exposure to the sun.

While medical professionals have long warned of the dangers of the sun's rays—skin cancer, wrinkles, cataracts, etc.—recent findings tend to support the school of thought that not only is some exposure to direct sunlight beneficial but it is actually vital for optimal physical and psychological health.

In fact, medical scientists are finding that sunlight can be an effective treatment for a variety of ailments, from depression to skin problems to jet lag to eye and vision problems to weak bones, and much more.

Many of these health problems may be related to modern lifestyles which avoid sunlight as dangerous to one's health; or which, due to the harried and busy indoors existences many of us live, leave many people without the time or inclination to occasionally relax in the sunlight.

And there are many residents of northern latitudes where high-precipitation climates obscure the sun's rays for extended periods, especially during the winter months when there is the least sunlight during the daytime.

It has been known for a long time that ultraviolet radiation found in the sun's light spectrum triggers production of vitamin D in human skin. Without vitamin D the body cannot absorb calcium from foods that is needed to maintain strong, fracture-resistant bones.

And bright sunlight affects the pineal gland's secretion of a hormone, melatonin, which can in turn influence physical and psychological processes such as sleeping, depression and eating habits.

Exposure of patients suffering from severe depression to direct sunlight or very bright artificial lights has provided dramatic relief for some of them, spurring more research and experimentation in this area of mental health.

In areas such as here in southern California with its deserts and predominance of high pressure weather systems providing a considerable amount of natural sunlight during much of the year, many people wear sunglasses to protect them from potentially harmful ultraviolet rays. But these same sunglasses can also make the eyes more sensitive to visible light, forcing the pupils to open up more and thus allowing more ultraviolet light to reach sensitive eye tissue.

While ultraviolet light can cause sunburn and skin cancer, it may also help in curing some forms of leukemia and immune system disorders, according to a report in the Nov. 13, 1984 edition of the *New York Times*.

This same article reported that visible light affects the body's secretion of melatonin that regulates the body's biological clock and influences reproductive cycles, sleeping, eating and other activity patterns and behavior.

While living in the greater New York City area some years ago and working full time during normal daylight hours, I found that in winter months when there was a lot of cloud cover and shorter periods of available sunlight, I would, every year, develop a condition of rough, red, scaly skin on my forehead and cheeks. No matter what I did to treat this problem with skin creams and so forth, the only thing that helped was regular periods of exposure to a sunlamp. With equal regularity as the spring months rolled around and there was more sun, the skin condition cleared right up and disappeared. Upon returning to California where there is more sunlight year round, I haven't had this problem at all.

I have found that I definitely feel healthier and am in a better mood more often when I get more sunlight. Even while living back east during winter months, on those rare occasions when I was able to go outside and spend some time there—even on cloudy days—I would seem to notice that I just felt better: more relaxed and in a better state of mind.

What I'm getting at is that I believe we as human beings need to get outside in the fresh air and sunlight occasionally at least, regularly if possible, to help us maintain our general health and/or improve ailments we may be suffering from. The old saying about communing with nature may appear silly to some in today's society, but I'm convinced, along with an increasing number of health professionals, I'm sure, that it's unhealthful and unnatural to stay inside all the time.

How much exposure to sunlight do you need for optimum health? I can't answer that. If you're concerned about increased chances for getting skin cancer or cataracts or going blind from getting sunlight in your eyes, consult your doctor or other qualified health professional. But some exposure—direct exposure for short periods of time—may be just what you've needed to alleviate some illness or depression. Try it. Just don't overdo it—*Jim Benson*.

# SURVIVAL LINE

*Severe earthquake possibility in Pacific Northwest, savings and loan institution failures climb, laws protecting gun owners, free safety info . . .*

**T**WO scientists with the United States Geological Survey have raised the possibility of a severe earthquake occurring along the Washington and Oregon coasts. In a recent report printed in the journal *Science*, Dr. Thomas Heaton and Dr. Stephen Hartzell found that the underlying geologic structures in the Pacific Northwest bear a striking resemblance to those found in southern Chile, Colombia, and southwest Japan.

All three of those regions have continuously experienced major and devastating earthquakes. According to the data so far accumulated, quakes in the region seem to occur at intervals of between 300 and 1,000 years. There have been no major quakes recorded in the area since settlement began about 1810. Nevertheless, the report concludes that in areas with similar geology quakes have, "caused great damage over very large regions" and that "the suggestion of similar events in the Pacific Northwest is disturbing."

**Economic Perils**—Of the nation's 3,200 savings and loan institutions, 25 percent are technically insolvent. The agency which oversees and insures depositors' money at these institutions, the Federal Savings and Loan Insurance Corporation, FSLIC, is itself technically insolvent by more than \$6 billion. Losses at institutions under the FSLIC's control are running at the rate of \$4 billion per year.

The Federal Reserve Board has called for a \$15 billion rescue plan for the FSLIC. Rejecting that plan, Congress has recently endorsed a \$5 billion program which will allow the agency to borrow that amount of money with the U.S. government acting as guarantor of the loans.

Many economists think the congressional plan will merely delay the inevitable collapse of the FSLIC. Says a University of Houston economics professor, "When we started talking about it a year ago, \$15 billion then might have been able to go a long way towards solving the problem. But the problems have gotten much worse since then."

Commercial banks also are having a difficult time. So far this year, (as of May 87), 69 commercial banks have failed.

**Gun Gains**—The town of Kennesaw, Georgia, recently celebrated the fifth anniversary of one of the most unique "gun control" laws in the United States.

Five years ago Kennesaw residents were

appalled by the total gun ban enacted in the town of Morton Grove, Illinois. In reaction, the Kennesaw town council passed an ordinance which required that every head of household in Kennesaw, "maintain a firearm, together with ammunition therefore." The ordinance, according to Kennesaw's Mayor, J.O. Stephenson, is largely symbolic. "We took a stand for guns, and we're proud of it . . . what we wanted to do was make a statement, to make people sit up and take notice," says Mayor Stephenson.

The ordinance has done more than that. In the five years since it was passed the crime rate in Kennesaw has dropped markedly. In 1981, the year before the ordinance, Kennesaw had 55 house burglaries. One year later that number was cut in half to 26, while in 1985 there were only 11 recorded home burglaries in Kennesaw. Further, despite the dire predictions of the anti-gun lobby, there have been no injuries or deaths from gun accidents as a result of the ordinance.

The Florida Legislature is considering two bills which would limit the ability of local jurisdictions to pass restrictive anti-gun laws. If passed, the bills would establish a statewide policy which would make it easier for residents to carry concealed firearms. Says a spokesman for the United Sportsmen of Florida, "Once the criminals in this state realize more people are ready to defend themselves we'll see a reduction in crime against the person." Florida currently has the highest crime rate in the nation.

Oklahomans now have the right to use deadly force against intruders whom they believe may cause them harm. The new law allows homeowners to use any force they believe to be necessary against intruders whom the homeowner believes present a threat of violence. The law also makes the homeowner immune from civil liability lawsuits resulting from his use of force.

Senator Steven Symms of Idaho has introduced a bill that would cut off federal funds to localities which enact laws that ban the possession of firearms.

**Safety**—The Metropolitan Life Insurance Company is offering two free booklets dealing with fire safety and general emergencies. To receive your copies, call 1-800-522-2445, Monday thru Friday, 9 am to 5 pm (EDT). ●

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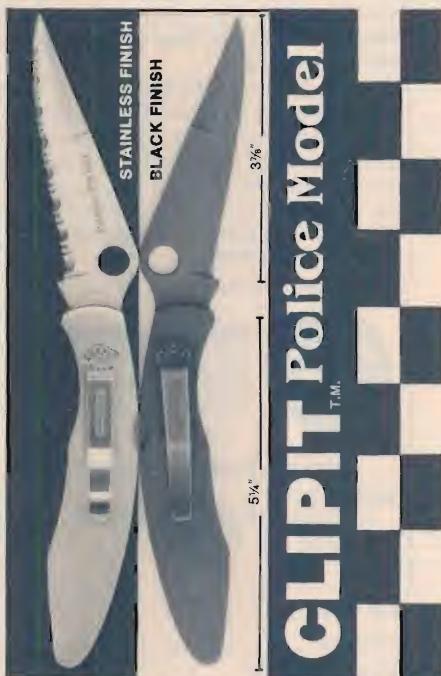
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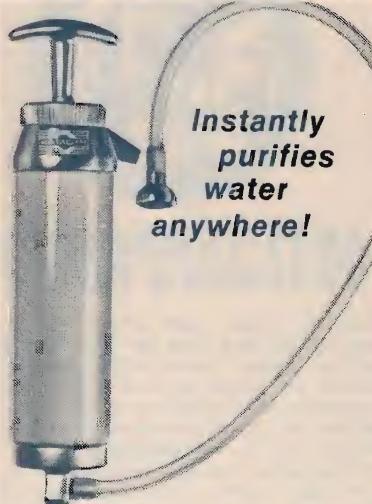
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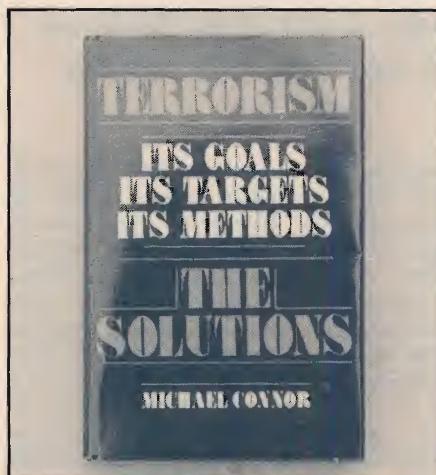
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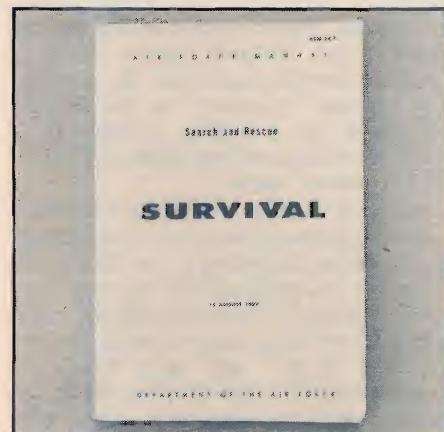
## BOOKS/VIDEOS



**Terrorism: Its Goals, Its Targets, Its Methods—The Solutions**, by Michael Connor; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 259 pages, hardcover; \$17.95 plus \$3 S&H.

"Terrorism" and "terrorist," says the author, "are, of course, arbitrary labels, which can be employed or ignored as befits the viewpoint of the individual. Consequently, the efforts of a group to further its objectives through fear will only be considered terrorist if you do not happen to agree with them. If you do, they become, thanks to the action of the great god Semantics, 'freedom fighters' or 'liberators.'" The so-called terrorist may be politically motivated, but then again he may not be, says Connor. "He may be driven by a desire to avenge some historical injustice, or he may be a religious fanatic. He may be insane, or he may be as sane as you or I. He may be a simple criminal seeking to legitimize his crimes in the name of ideology; he may be intent on destruction or content with disruption. *He* may even be a *she*." And a terrorist's target need not be a member of a country's armed forces, a government official or a civilian. "As society becomes increasingly technologically advanced it becomes more vulnerable to attack. The quantum leap forward in sophisticated hand-held weaponry and communication systems—satellites, fiber optics and computers—presents the terrorist with an increasing array of targets." What can governments and individuals do to protect themselves from the terrorist threat? The author explores state-of-the-art technology—such as explosive-detection devices, fiber optics cameras, concealed microphones and high-power ultrasonic transmitters to disorient terrorists. Connor, an anti-terrorism consultant with a background in the British military, provides a working definition of terrorism and

discusses the reasons and personalities behind it, as well as training, weaponry, strategies, targets and techniques, protective measures for governments and individuals and much, much more in this fascinating book which thoroughly explores the subject and offers distinct solutions to the problem.



**Search and Rescue: Survival**, by Department of the Air Force; World Wide Publishing Corporation, Dept. ASG, P.O. Box 105, Ashland, OR 97520; 160 pages; softcover; \$6.95 plus .95 cents postage/handling; ISBN 15-7.

This manual is designed to aid in survival and rescue regardless of climatic condition or geographic location. It describes the proper use of survival tools and assists in recognizing and utilizing present natural resources. Containing over 78 illustrations, the information found in *Search and Rescue*, combined with the will to live, are worth knowing for survival. The 6x9-inch guide is small and light enough to carry anywhere. The subjects covered in this convenient life-saver include survival in areas contaminated by radiation; discussing shelter, safety of food and water, proper clothing and equipment. Another topic addressed is basic survival on land, from immediate action to first aid, signaling, and again, shelter. Survival at sea is also discussed. The same format is used with survival at sea. Subtopics include immediate action, the more difficult task of obtaining food and water, seamanship and survival swimming. Finally, there is a chapter covering survival on sea ice. Information on fire making, shelter building and the decision of whether or not to travel from the scene of the accident is covered. Also, as in each of the sections discussed, immediate action to take is dealt with. Basically, the same suggestions are made regardless of whether you're on land or at

(Continued on page 16)

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The Israeli Masks are not only new (meaning they have not been used) but also are of recent manufacture. Made for the Israeli population to protect against gas attacks, they will handle all common battlefield gases including CBW gases. One important feature is that the filter can be changed in seconds without removing the mask. The canisters have no listed limit to shelf life. In talking to those who seem to know, if the protecting seals are not removed they should store indefinitely. Also the filters are readily available at this time. #C/0569

**Bag, Mask and 2 Canisters**  
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**2 Sets** \$ 60.00 ppd.

**Bag Alone** #6479 \$ 6.95 ppd.

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#6476 \$ 19.50 ppd.



#### New B.A.R. Belt

The military designed this six-pocket ammo belt to carry Browning 7.62 caliber magazines. Each pocket has a flap closure with heavy-duty metal snaps. Belt is fully adjustable with high impact plastic buckle. You could design a nice basic survival kit (first aid, food, fuel, fishing kit, space blankets, etc.) that could be carried comfortably and out of the way. The pockets are 6" tall, 3 1/2" wide, and 2" deep. Made of extra heavy cotton duck. OD in color. One size fits all #3338

\$ 12.50 + 1.50 S&H

**2 Belts** \$ 24.00 ppd. 48 states

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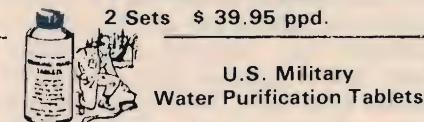
**Special \$ 239.00 ppd. 48 states**

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There is no medicine that will effectively prevent nuclear radiation from damaging the human body cells that they strike. However, a salt of the elements potassium and iodine, taken orally even in very small quantities one half hour to one day before radioactive iodines are swallowed or inhaled, prevents about 99% of the damage to the thyroid gland that otherwise would result. Each set has 98 high quality tablets packaged in 7 14-tablet bottles for easy use by family members. #1525

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resin-impregnated handle with a blue steel crossguard, pommel and nut. The blade is extremely thick, .280 with a high hollow grind that is engraved with the Special Forces Crest and "5th Special Forces Group, Vietnam." A heavy stitched black leather scabbard with sharpening stone is included. The knives are serialized from #1-#1500. An all-walnut presentation case is available upon request. For more information, write or call, SOG Specialties, Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406-1006, (213) 451-4292.

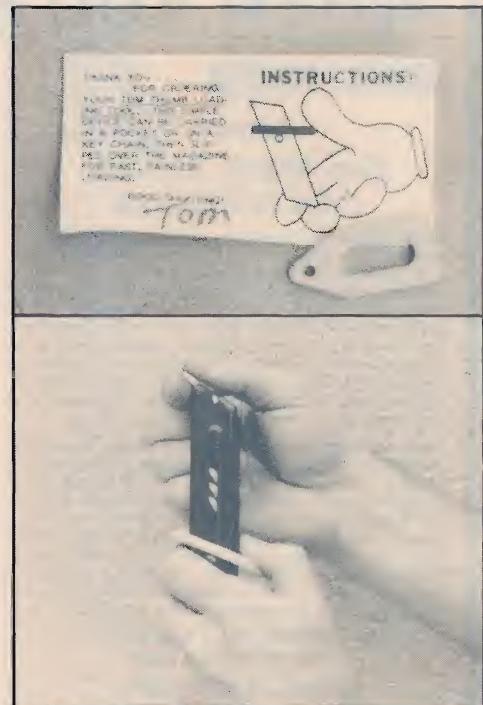
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The Racon II, an alpha, beta, gamma detector, can be belt carried or wall mounted. Only 8 ounces in weight and

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Tom Thumb Designs has produced a handy little device to save your thumbs when loading your .22 pistol magazines. The Tom Thumb Loading Tool is made of high density polyethylene plastic and is virtually indestructible. You can carry it on a key chain or in your pocket. It works on Ruger Mark I and II auto pistols as well as High Standard and Colt Huntsman and Woodsman models, and on most other .22 auto pistol mags with side buttons. To get yours send a check or money order for \$3 for one or \$5 for two loaders postpaid to Tom Thumb Designs, Dept. ASG, P.O. Box 8640, City of Industry, CA 91748.

Eye Armor



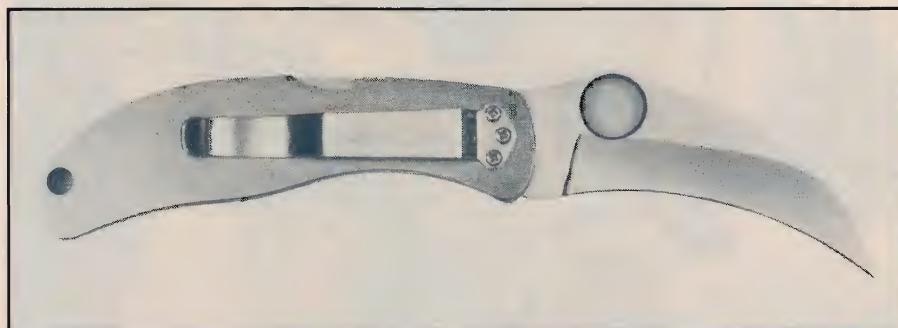
Gargoyles are the world's most advanced solar eye armor—polycarbonate tough. This eye wear, available in lunar grey, bronze or amber, has four times the impact strength of aluminum and 50 times that of glass. One pair withstood a 12 gauge shotgun blast fired from 15 feet away. The Gargoyles wrapback lens design provides 210 degrees of clear vision while blocking out 83 percent of wind and glare and 100 percent of ultraviolet rays from the sun. Included with each pair is a hard plastic carrying case bonded to a tough Cordura nylon outer shell with Velcro closures and 2-inch belt slots. Gargoyles are \$49.95 per pair plus \$3.50 S&H from Quartermaster Military Equipment, Dept. ASG, 750 Long Beach Boulevard, Long Beach, CA 90813. Phone (213) 436-5891. Credit card orders accepted.

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At last, the answer to every mechanic's dream. The original "Tool Partner" holds those small sockets and tiny parts that often slide off the air cleaner or fenderwells. If you've ever laid a wrench on the top of a battery to discover you've shorted it out, you know the value of having a safe place to put your tools. The Tool Partner is a sturdy plastic tray that is suspended from the hood's underside by two strong magnets. The magnets won't mar the hood, and the tray keeps the tools where they're easy to reach without being on a hot engine. The Tool Partner is available through most retail and mail order outlets for \$11.95. For further information, write SM Products, Dept. ASG, 7928 Bacardi Dr., San Diego, CA 92126. Or call (619) 586-0161.

#### Harpy Knife



The Spyderco "Harpy," overall blade length of 2 5/8 inches, constructed with A-6 stainless, was designed as a seiner's (net fisherman) knife. The blade shape was fashioned after the talons of the Harpy Eagle. It is extremely efficient in cutting nylon, poly, hemp or kevlar. The scales include vents which enhance faster drying

when wet. This Spyderco CLIPIT lock-back, right- or left-handed knife is available with or without serrations, although the serrated blade is far superior in cutting power to the plain edge. Available July 1, 1987, the Harpy will retail for about \$53. For inquiry write Spyderco, Inc., Dept. ASG, P.O. Box 800, Golden, CO 80402.

#### High Performance Paint Gun



Pursuit Marketing, Inc., is introducing an all-new, high-performance gun to its line of paint ball guns. Called the model PMI, the new gun comes equipped with a 7-ounce canister that provides the user with a factory-constant CO<sub>2</sub> supply. It allows 300 to 400 paint balls to be shot, a substantial increase over the 30-shot, 12-gram CO<sub>2</sub> supply, which will also operate the gun. The model PMI is manufactured by the Sheridan Air Gun Division of the Benjamin Air Rifle Company. The gun is constructed of top quality materials, including rust-proof stainless steel, brass and aircraft aluminum, yet weighs only 4.8 lbs. The new, long-barreled pistol measures 10 1/4 inches from chamber to muzzle and is well-balanced, as well as

being easy to sight and load. The gun's smooth, rapid-fire cocking system, coupled with the larger CO<sub>2</sub> canister, provides faster, long-lasting, more accurate firepower. The gun is dependable under all climate conditions and is comfortable to use for target practice, paint ball games, law enforcement and military training, or for just plain fun! Pursuit Marketing, Inc., provides immediate shipment of their entire line of paint ball game equipment. Suggested retail price for the model PMI is \$240. For dealer or distributor information, or to order the model PMI, call Pursuit Marketing, Inc., Dept. ASG, at (312) 272-4765, or write to them at 1980 Raymond Dr., Northbrook, IL 60002. ●

**Lightweight, Rugged:**



# Marlin Rifle Folding Stocks

*Ram-Line's New Space Age plastic folding stocks for Marlin Model 9 and 45 Carbines and Model 70 and 995 .22LR rifles . . .*

By Joe Zambone

.22LR rifles. The other stock, #FSC 1211, is for Marlin's new Model 9 and Model 45 9mm and .45 ACP Carbines. The stocks feature two detachable studs for sling swivels, a no-wiggle armlock for steady sight picture hold, light weight (about 1 pound, 10 ounces each), impact-resistant fiber composite construction which is unscratchable and won't warp in wet weather, oversized easy-push buttons for folding and extending the stock and butt plate, and pistol grip storage compartment.

We were unable to find a Marlin .22 rifle to fit with the folding stock we had from Ram-Line, but we did put the folding stock on a Marlin 9mm Camp Carbine and a .45 Carbine. It takes only a minute or two to mount the stock if you have a screwdriver. Two screws are removed from the wood stock which are then used to mate the folding stock to the Marlin action. Our stock fit perfectly. The large buttons allow easy release of the stock's folding rear part

and swing-down butt plate.

One possible problem with these stocks using the rifle's iron sights is that some people have difficulty positioning their cheek to the stock for a good sight picture, requiring the shooter to push his/her cheek hard against the stock, which can be uncomfortable when firing the .45 Carbine due to recoil. We mounted a Thompson/Center Electra-Dot 4-power scope on our test Marlin Model 45 and totally eliminated this problem. Some shooters, however, have no difficulty obtaining proper sight picture with iron sights.

Ram-Line's .22LR folding stock is \$57.95 and the 9mm and .45 ACP Carbine stock is \$59.95. These stocks are a good buy if you're looking for ruggedness, light weight and shorter length in your Marlin rifles. For more information contact Ram-Line, Inc., Dept. ASG, 15611 West 6th Avenue, Golden, CO 80401. •



**R**AM-LINE has introduced two new lightweight, Space Age plastic folding stocks for Marlin rifles which can be installed in place of the standard stocks on these rifles in minutes.

One of the stocks, #FSL 1212, fits Marlin's Model 70 and Model 995 .22LR rifles and some other makes of magazine-fed



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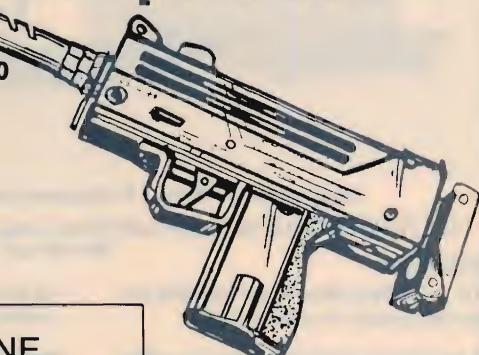
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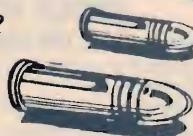
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## Books/Videos

(Continued from page 10)

sea. This book provides a step-by-step outline of what you need to do to insure your survival in numerous situations. Having such information in such a format eases the mind of the person requiring rescue and allows more of an opportunity for survival.



Just For Kicks, the Art of Fighting With Your Feet, by Keith D. Yates; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 115 pages, paperback; \$10 plus \$3 S&H.

Kicks are the equalizers of the martial arts. The ability to fight with your feet gives you extra reach and power to vanquish a larger, stronger opponent. Kicks have three to four times the destructive power of a punch, according to Yates, a 6th degree black belt in tae kwon do karate, a Korean form of karate which emphasizes high, powerful kicks. "They are what make the karate or kung fu master more deadly than his streetwise but non-martial artist opponent. Of all the martial arts, the Korean styles emphasize the legs most. Hapkido, Bo Soo Han's system; tang soo do, Chuck Norris's style; and tae kwon do, the art to be included in the 1988 Olympics, are all known throughout the martial arts world for their high, powerful, leg techniques." In this book the author provides the reader with an education in Korean-style kicking. "We will cover not only individual kicks, but stretching exercises, ways to increase your power, blocks, and practical applications. Don't get the idea, however, that all you need to do is study a book (this one included) to become the next kick-boxing champion of the world. As in any athletic activity, it takes months and even years of hard work to become truly efficient with your feet." Following his introduction, Yates compares kicking styles, covers stretching exercises

(Continued on page 39)

# The PARABELLUM™ - A massive 2 in 1 Bolt-Action®

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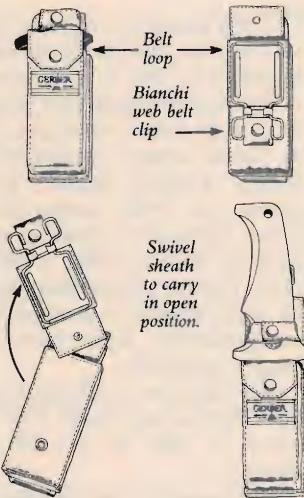


Knife shown half size.

**PARABELLUM**  
#7028 4 1/4" drop-point blade.  
Rockwell hardness, c57-59. Length open, 9 1/2";  
closed, 5 1/4". Blade thickness, .175".  
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In-Flight Emergencies:

# Mountaineering With Parachute Equipment

**T**HE parachute has had many modifications and improvements since its invention in 1495 by Leonardo da Vinci.

The very first parachute jump was made in 1617 by Foust Veranzio, from a tower in Venice using a parachute made of a square wooden frame, covered with canvas. In 1808, Andre Kuparento, a Polish balloonist, leaped to safety from a burning balloon using a parachute. In 1912, Captain Albert Berry is given credit for being the first American military man to successfully jump from an airplane using a parachute.

The need for a reliable parachute was identified during World War I when men began to take to the air for military reasons.

Improvements are still being made today on its design. With these improvements, many uses for the parachute have come about. In a survival situation, making a shelter or clothing with the canopy can be accomplished and a rope or net can be fabricated using the parachute suspension lines. These are a few of the many uses a parachute can provide you in an emergency situation.

This information was originally developed for Navy and Marine Corps aviators and aircrew members. It is currently being prepared for publication in the new Navy Survival Manual. It has been tailored to be applicable to parachute equipment available on the civilian market. The similarities of the equipment make this very easy. With this in mind, the following improvisations can be useful.

To make use of your equipment modifications, a few simple knots need to be discussed first.

The overhand knot: this is a simple knot used to secure the ends of nylon webbing, and make a fisherman's knot. The half-hitch knot: this knot is similar to the overhand knot and is used as a safety tie. The square knot: this knot is used to secure two lines together. Secure each side with a half-hitch knot. The fisherman's knot: this knot is used to secure two lines together. It is best suited for making a rappel line. This is done using overhand knots: First, lay the ends of two lines together. Tie an overhand knot on one end and include the other line in the loop. Repeat this step with the other line. Tighten each knot, then pull both knots together.

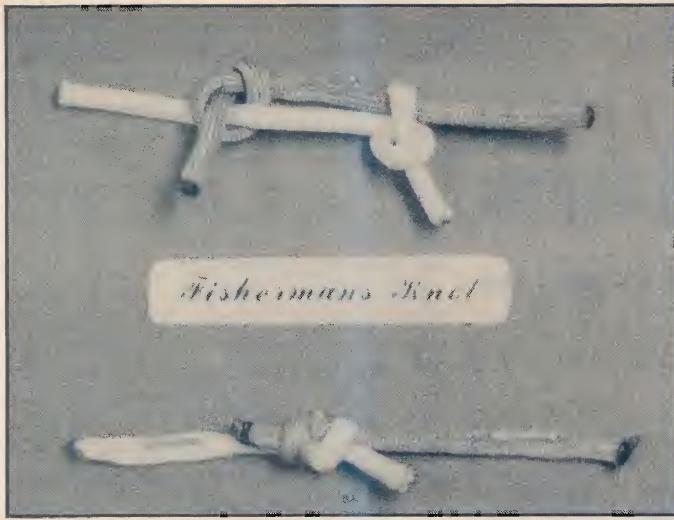
The daisy chain knot: this knot is used as an anchoring knot for the rappel line

*Using parachute equipment provides you with clothing, shelter, climbing and rappelling equipment which you can carry with you . . .*

By Joe K. Falkenberry



Rappelling in the Navy's MA-2 Integrated Torso Harness used by jet aircraft personnel.



Fisherman's Knot.



Daisy Chain Sequence.

that can be released to recover the same. To make this knot: make a loop and put it around what you want to tie the line to. You will have a loop, a long line, and a short line. Make a loop in the long line and put that through the first loop. Pull on the short line until snug. Make a loop in the short line and put it through the long line loop, pull the long line snug.

Repeat these steps two more times. Insure that the end of the short line does not go through the loop, but stays securely in it. Insure that the long line was pulled snug on the short line for the last loop; otherwise, when weight is applied, the knot will come loose.

The prusik knot: this knot is used to secure oneself to a rappel line. To make this knot: fold a 12-inch section of line in two. Place the loop over and around the rappel line. Put both loose ends through the loop. Do this two more times. Insure that the two ends stay side by side. Tie a knot in the end using a square or fisherman's knot. Dress the prusik on the line. It will slide much easier and when weight is applied, it will cinch faster.

The Parachute provides us with material for shelter, clothing and a considerable amount of available line between the skirt hem and riser assemblies, approximately 600 feet, for use as a rappel line. The length of the rappel line will vary due to the type of canopy and manufacturer's specifications.

There are several items on the parachute harness that can be of use to us: chest and leg strap connections for anchors, and the harness itself. This one piece of equipment has been ignored for a long time. The harness when used with the rest of the parachute can prove to be very valuable if one finds oneself parachuting into mountainous terrain due to an in-flight emergency.

**Rappel Line**—After cutting loose the parachute suspension lines, separate them into four equal piles. Three lines minimum are needed to make a safe rappel line. The fourth pile should have more than the others or be equal to them, this will be the

retrieval line. Tie the ends of all the lines in each separate pile together using fisherman or square knots. Lay the ends of the three lines together with the ends at one foot intervals on each other.

Tie an overhand knot about six inches below the lowest end. Cut off excess line, three inches above the knot. An easy way to store your rappel line is by using the daisy chain method. It is somewhat different than the daisy chain knot. To do this: grasp the line about one foot down from the end, with one hand. Place the other hand underneath the line so that it rests on top of the wrist. Twist your hand up, back, and over and around the previous position. While still holding the line with the other hand, grab the line on top of the wrist. With your free hand, grab the line and pull it through the loop formed around the wrist. Release the line in the other hand,

reach through and pull the line up through the loop to make a new loop. Pull each loop somewhat snug. Repeat the last two steps until the end of the rappel line is reached. Now you have a smaller, easier bundle to work with that won't turn into a tangled mess. To release it, just pull out the lower end and it will feed out easily.

The parachute harness modified figure of eight is an improvised figure of eight carabiner. Cut or route the "V" ring off the harness at the point where the webbing is secured. Wrap a three-foot length of suspension line through the rectangular portion at the bottom of the V ring. Even up the ends and secure with a fisherman's or square knot. Cut off the excess. With the parachute harness on, disconnect the chest connections. If it has quick ejector snap fittings, make a loop in the center of

(Continued on page 66)



Cutting the parachute suspension lines from the parachute.



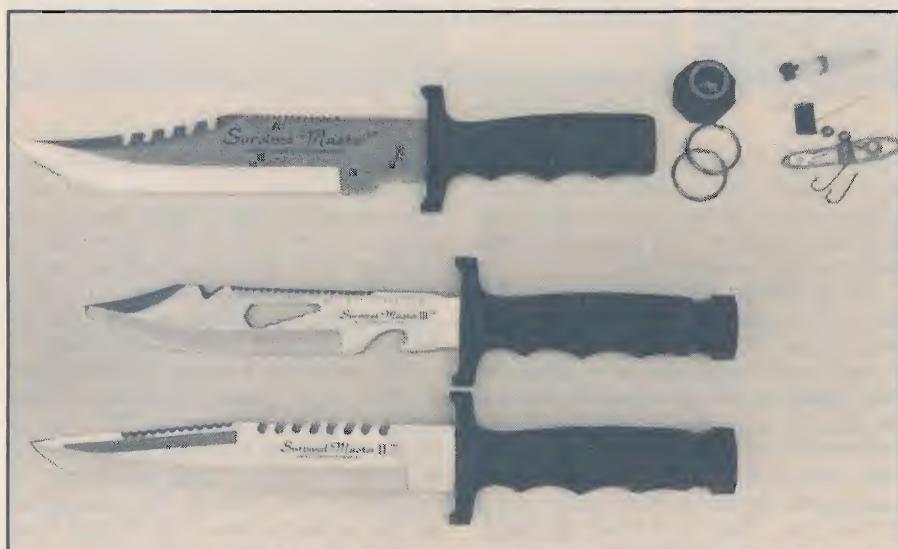
Separating the parachute suspension lines into four equal piles.

Good Quality:

# Survival Masters

*Three hollow-handle big-blade outdoors knives for the budget-minded . . .*

Staff Report



stainless steel, each is 14½ inches overall. Handles are hollow die cast with O-ring seals and butt caps containing a liquid-filled compass. All of these knives are now being shipped with survival gear for storage in the handle: a wire saw, matches and striker, needle and fishing line and hooks. Some of the models made previously do not have the survival gear.

The Survival Master, the original, Rambo-style of the series, has two types of saw teeth on the back of the blade for performing a variety of cutting chores. As with the others in the series, the Survival Master comes complete with genuine black leather sheath with leather leg tie and sharpening stone. The sheaths will fit any belt up to 5 inches wide.

Survival Master II has the same features as the original except the large saw teeth are at the rear of the back of the blade and there is a chamfer serration in place of the small saw teeth for quick cutting through rope, wire, ice or aircraft aluminum—even wet rope under water, according to the manufacturer.

Survival Master III has a blade redesigned to include slotted screwdriver at the tip, bottle opener, rope cutter, saw/scaler and wrench.

Each knife also comes with a certificate of authenticity signed by Saburo. Take your pick. They're \$45 each plus \$3 S&H. Catalog \$3. Send check or money order to R&E Butler Distr., Dept. ASG, P.O. Box 154, Malad City, ID 83252. •



**T**HIS series of hollow-handle survival knives has a lot to offer for the budget-minded individual who also prefers a big blade.

These are all good quality large knives with 9-inch blades, except for Survival Master III which has an 8-inch blade. The handles are about 5½ inches long and feel comfortable to grip for large or small hands. The handles have finger grooves and checkering for sure grip. There are holes in the guards for using line or cord, if desired.

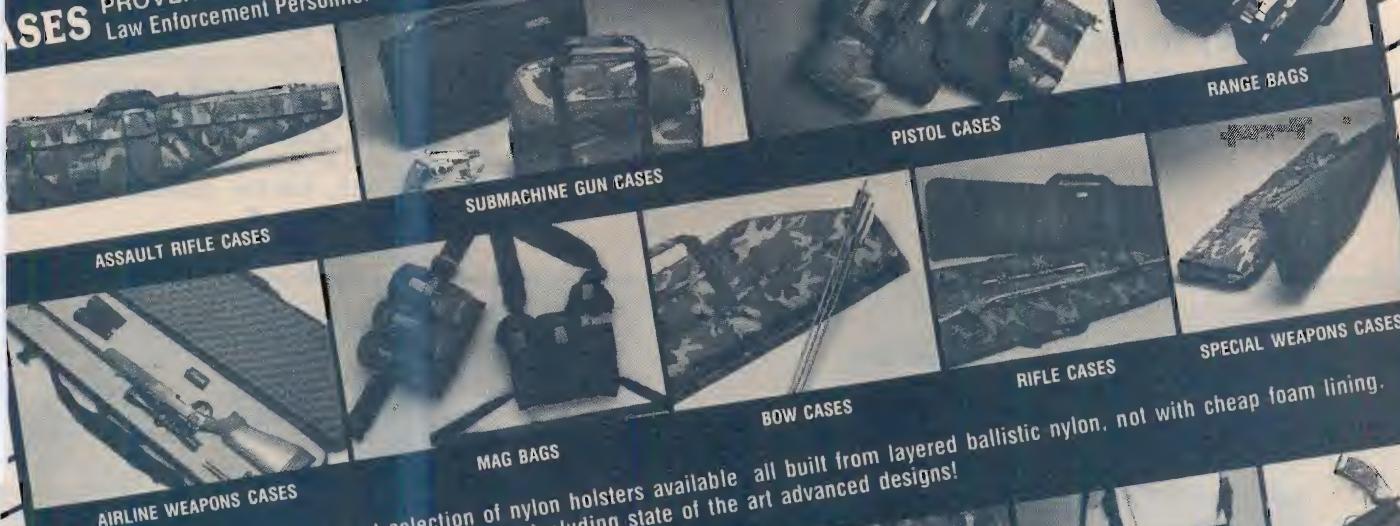
Each knife is handmade by Saburo of Japan. Diamond edge tempered of 440x



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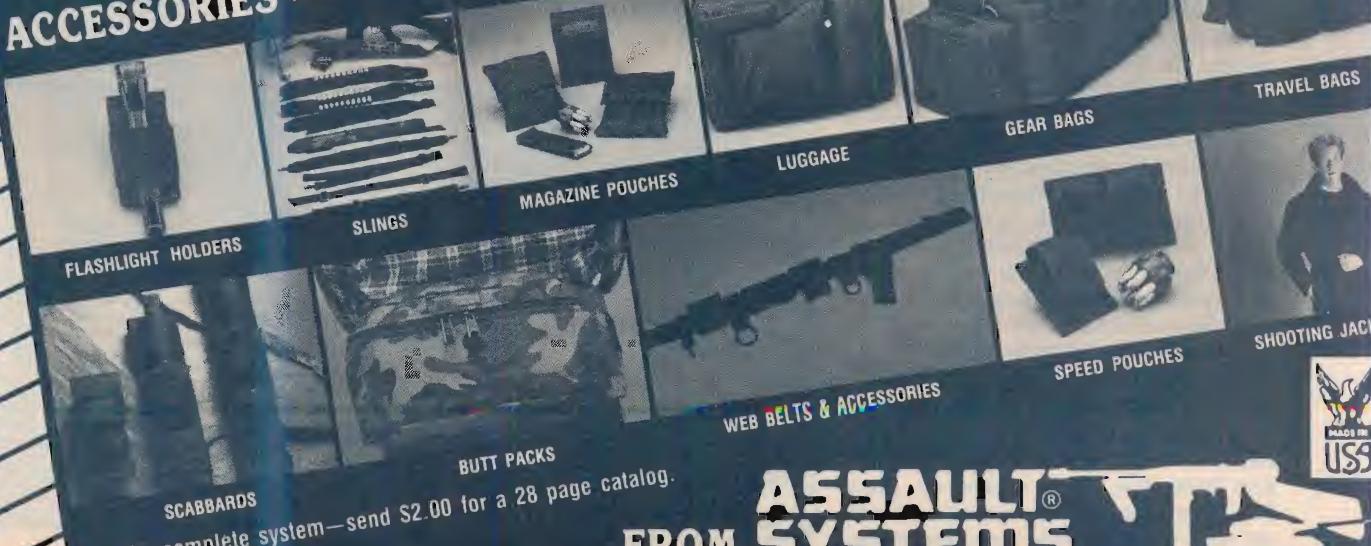
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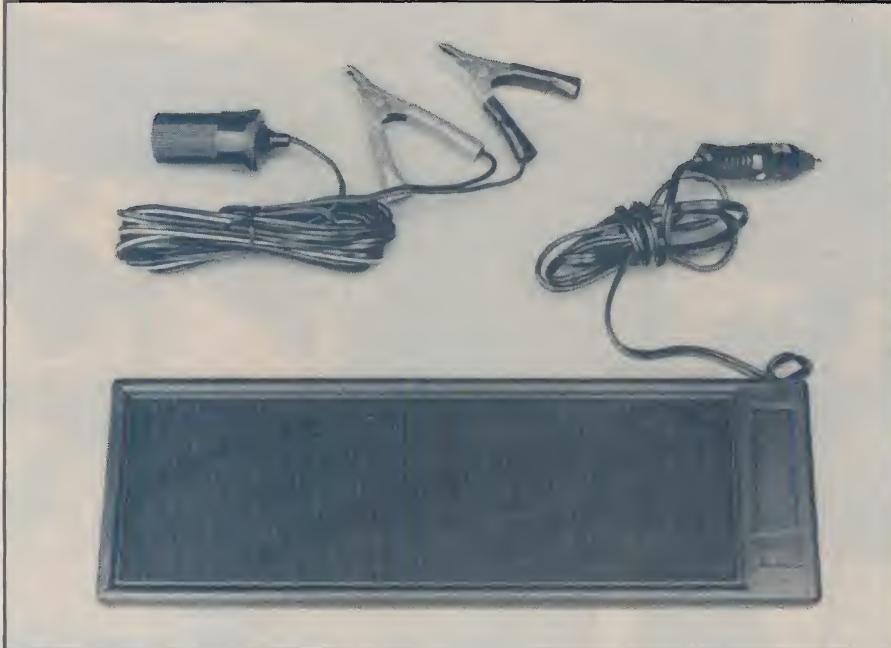
# The Maintainer

*An ideal way to keep your car, boat, plane or other battery fully charged . . .*

Staff Report

thing you have that uses a rechargeable battery—forklifts, wheelchairs, snowmobiles, golf carts, walkie-talkies, toys and models, ham radios, alarm systems, etc. The Maintainer is 4½ inches wide, 12 inches long and ¾-inch thick, weighing only 1 pound. Peak power output is 74 ma, 20 volts. It comes complete with 12-volt cigarette lighter plug. It's made in the U.S.A. by Solar Electric Engineering, Inc.

The Maintainer is available for \$59.95 plus \$2 S&H from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855 or toll free outside California (800) 533-7415. Ten-foot extension cord with clips \$9.99 ppd. ●



The Maintainer solar battery recharger with optional 10-foot extension cord with battery clips.

**H**AVE you ever experienced the frustration of a dead battery after you left it for a short time unused? You'll never have that problem again with The Maintainer and a little sunlight.

The Maintainer uses free sun power to keep your car, boat, airplane, RV, heavy equipment, motorcycle, radio, and many other types of batteries fully charged. You can let them sit for days, weeks, months and The Maintainer prevents the battery from losing critical starting power. And there's no danger of overcharging so it can be left plugged in at all times.

Just plug The Maintainer into the cigarette lighter socket of the vehicle. If you don't have a cigarette lighter or if it will not work for recharging your battery, simply connect the wires directly to the battery. This is not difficult. See instructions. If you prefer, an optional 10-foot extension cord with battery clips is available which connects to the cigarette lighter plug on The Maintainer. Once hooked up, place The Maintainer in a location where it will get direct sunlight—the dash, the instru-

ment panel, the roof—and let the sun do the charging for you.

A battery that stays fully charged will last longer. The Maintainer is ideal for offsetting the power drain caused by vehicle computers, burglar alarms and cellular telephones. Use The Maintainer on any-



Three ways The Maintainer can be used to recharge a car battery.

# MAIL CALL.

## Springfield M16-Type Rifle Blooper

We don't know just how it happened, but the article we carried in the June 1987 issue of American Survival Guide in our New Products section on page 12 regarding the XM-15 rifle from Springfield Armory, Inc., was a mistake. The information we received in the mail within a month of placing the article and photo in the New Products section was three years old, according to Springfield Armory, which has discontinued production of the XM-15 rifle. How we came to receive three-year-old information in the mail is a mystery to us. We have been unable to contact the ad agency which apparently produced the press release and photo. We apologize for the error.

## Small Unit Tactics Errors

There were several unfortunate typographical errors in my article, "Small Unit Tactics" which appears in your June 1987 issue. First, on page 27, the center

column, last line, the copy should read "blunt-edged stabbing sword," not blunted. On page 64, last column, the 18th line should read "within 100 yards," not within 10 yards. Finally, on page 65, first column, the 18th line should read, "can keep one squad in reserve," not one squad in reverse. Also, I would have liked the following sentences to have been added to the caption for the illustration "Rifle Squad In Defense" on page 65: "Each man's field of fire is a wide cone to his front. Do not try to obtain interlocking fire, as this is effective only with machine guns."

John McSweeney  
Chicago, Illinois

Thanks for the corrections, John. We're sorry about those embarrassing typos. While we're on the subject of typographic errors, there was one other one in the June 1987 issue which we missed that irked us. In our review of Ralph Zumbro's book Tank Sergeant on page 16, the tankers were referred to as "threadheads." The

correct term is "treadheads." We regret the errors.

## Blazer vs Mini-truck

While my correspondence with publications such as yours is usually in the capacity of a contributing author, rather than as a letter to the editor, I feel I must make some comments on the article by Mr. W. Ed Poe, "Lean Machine VS. Mean Machine," in your March 1987 issue. First, let me state that I have been a reader of Mr. Poe's for quite a while, and usually find him informative and knowledgeable, but in this case, I think he was really off base. I am the proud owner of a full size Chevy K-5 Blazer (4x4, of course) and would be most happy to compete against Mr. Poe's mini-truck in a survival type situation. Let me explain why: First, I have considerably more payload capacity than he does, and at nearly the same gas mileage (21 highway). And I have him beat hands down on driver and passenger com-

(Continued on page 77)

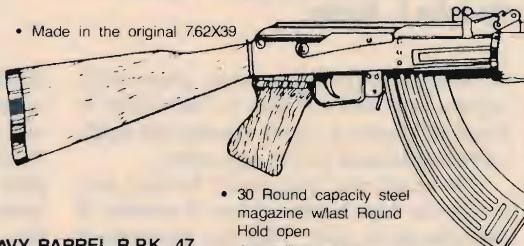
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Joy Mitchell shown holding an AK-47 in 7.62X39 with folding stock and 75rd drum magazine



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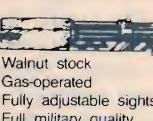
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- 10 Round detachable steel box magazine with last round hold-open
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- Special Match Ammunition available



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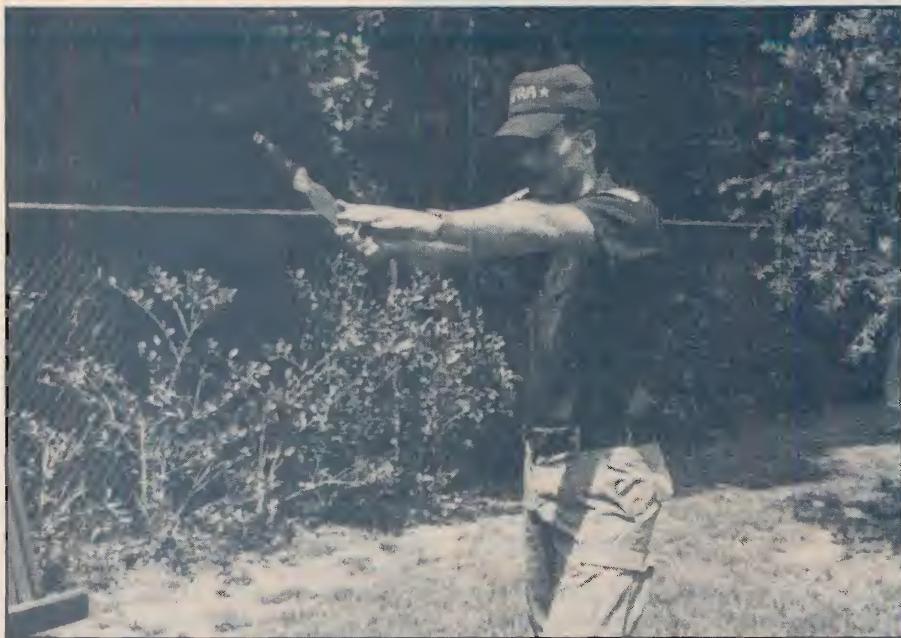
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## Knives, Techniques:



When you have a knife without sharp edges, it can be thrown overhand using a grip in which you wrap your fingers around the blade, shown here.



The taut grip for throwing Ka-Bars and bayonets or other heavy-handled knives.

# Knife Throwing

*As seen in the movies, many knife throwing methods look easy and effective. Most of them are not . . .*

By John L. Bailey

*The author taught knife throwing in the Army and conducts a knife throwing class for the American Pistol and Rifle Association. He will answer questions if you include a stamped, self-addressed envelope with your inquiries and send them to: John L. Bailey, 606 Pearl Road, Winter Springs, FL 32708—The editors.*

**I**NTEREST in knife throwing can start at an early age while watching a myriad of Hollywood characters perform the seemingly impossible.

Fascinated, you can watch Robin Hood casually pluck a dagger from his belt and unerringly pin a rich Norman's money purse to a convenient tree. Jim Bowie was no slouch either. Portrayed by Gary Cooper, it was nothing for him to drop a bad guy running through the woods lit only by a full moon.

Movie makers for years have worked hard at reinforcing these myths pertaining to the capabilities of actors. They delight at leading patrons to believe that this sort

of trickery could be common place, with anyone who had a notion to take knife in hand and heave it, in the manner the script writer fantasized at the typewriter.

The most over used movie favorite and by far the most useless throw to master, is the open palm style. This has been shown as a fast and deadly throw, at distances of up to what appears to be 20 feet or so. The truth is you must be only a few feet from the target; too close for any mistakes and no chance for a second throw. Most often the knife is seen in a boot, sleeve (opposite hand) or behind-the-neck rig. The knife is carried this way so it can be drawn and thrown and leave the hand with no spin. Avoid knives with heavy handles, they will tend to flip as soon as they leave the hand. Nevertheless, because of the grip you still won't generate enough power to get much accuracy.

Hold the knife in your open palm, with the thumb on the handle. Throw with the back of the hand going forward. The knife has to be fairly light, because extra weight requires a tighter grip, causing more of a

chance of missing target alignment. Using this style it is crucial to have the knife slip out as soon as the arm is in line with the target. Now this is not to say you can't learn this style or that you can't throw the knife at a further distance, but there are better styles to use in close. You would be better off if you held on to the knife and spent the time learning a knife fighting technique.

With all the knives being made nowadays it is easier to point out what you don't want in a throwing knife, than to try and tell you what knife to buy. Good throwing knives with a throwing life of 20 years or so are hard to find. Most are passed off to look the part but are flawed either in design or steel temper. Almost all have poor handles. Knives with hollow handles are on the top of the list, second only to stag in the self-destruction department. Next are models with hilts. The hilt is the cross guard between the blade and the handle. Knives that have the blades affixed only by a small part of the handle or that continue only partially into it, with the handle material making up the rest of the knife's length, are also not good for throwing. Knives made of very high carbon steel (files), thin spring steel blades

(kitchen knives), or any combination of same, will not hold up under the continuous impact throwing knives are subject to. Folding knives are the worst thing you can pick for throwing. I say this because I've never seen one stay together more than a few dozen throws. The hinge pins will loosen or break altogether. What I am saying here, is you can definitely throw a Ka-Bar, Fairbairn, Puma White Hunter, or for that matter, even your favorite Buck folder. Just don't fool yourself into thinking it will hold up for any length of time. If you still want to impress your friends with a well placed throw, with your Ka-Bar, I suggest you buy up a batch of surplus stock at a gun show to practice with, before you throw the one you care about.

**What To Look For**—Look for a knife made of spring steel, from 5/32- to 5/16-inches thick, tempered to somewhere between 43 to 48 on the Rockwell C scale. I have had good luck with 440C stainless. But I am waiting to see if they will hold up like two of my 17-year-old Tru-Bal Bowie-



Throwing knives by the handle is the most practical method from a survival point of view, the author says. Here the thrower begins a rearward rotation of the knife before releasing it.

Axes. Try to have 1 to 1.5 ounces of weight per inch of overall length, not to exceed 14 inches and not less than 10 inches. I like 13.5 inches at 15 ounces. Some might like the smaller, heavy blade boot knife style. Make sure the handles are of a fibrous stock and held on with heavy rivets. Most handles that have a pommel, or come even with the end, are subject to slicing rivets off at the interface. There are a few handleless stainless steel knives good for blade throwing for fun, but they're not much good for anything else.

There are two basic ways to throw a knife: by the blade or by the handle. No doubt you have seen someone pick up a knife and balance it on their finger and spout, "Umm good balance." Most of them hope you won't ask, "What does good balance mean?" Good Balance is relative only to the use which a knife is to be applied. Let's say we find a knife that is not in the category of knives not to get. How do we find out how it should be thrown? Most acceptable knives will be good for one style of throw and bad or not so good for the other style, few are good at

both. Here is one of the secrets to throwing a knife. Throw the heavy end first.

A knife that is perfect for the handle throw, has a good balance if it has 1 ounce of weight to the inch of length and the blade is the heavy end. That is, if balanced on the finger, in the aforementioned manner, the balance point is in the center or no more than an inch back towards the handle—a light handle, hence, a heavy blade. Hold the knife in the same manner as you would a hatchet but, instead of wrapping the thumb around the handle, lay it along side the handle, usually on top of the first rivet.

If a knife with a heavy blade is thrown by the handle, it would seem that a heavy handle would be best for the blade throw. For the most part that is true. Whereas the configuration of the blade is normally not a large concern on a knife thrown by the

handle, it must be considered in choosing which one of three methods you will use when throwing by the blade.

Daggers, ice picks or stilettos are held in the same manner as a throwing star, with the point just touching the ring finger, if light weight (floater); or just even with the little finger, if heavier (Fairbairn or boot style).

If the knife is of the hunting style (Ka-Bar, Buck, and most bayonets), the majority have a false edge. Use what I call a sandwich grip. Marines taught this style for throwing the Ka-Bar and I taught it in the Army for bayonets. With sharp edge out, lay the thumb along the center of the flat side of the blade and push the finger tips tight to the center of the other side. This will put the false edge slightly off the meat in the inside of the hand, so when the knife is released the point won't drag across your palm. Never throw a saw back knife by the blade, it will do to your hand the same as it does to a piece of wood.

This method is for the most part used by professionals for stage shows. These knives don't have sharp edges, but do have sharp points. The grip used is almost the same as a handle thrower, except the thumb is most often put on the top edge.

This concludes the styles used when throwing a knife by the blade. Personally I do not recommend that you spend too much time trying to learn them; except perhaps style three if you intend to go professional. I say this because, I have never seen anyone carry a knife in a sheath handle down; nor have I seen anyone successfully grab for a sharp knife and throw it in a manner that could be construed as a better, or faster way than a knife thrown by a person of equal skill using the handle. The only reason I teach these styles, in my class, is to show the student the how and why some knives seem to throw better than

(Continued on page 68)



The palm knife pulled from a sheath of the opposite arm to the throwing arm takes too long to use and the throw has no power, according to the author.



An assortment of knives which can be thrown by the handle. Note that they all have heavy blades in relation to their handles.



The AR 70 tested was semiautomatic. This weapon is also available in this country in a full-automatic version. The AR 70 is a lightweight, air cooled, gas operated rifle with a cyclic rate of fire of up to 700 rounds per minute.



Shooters experienced very little recoil and almost no muzzle rise when firing the AR 70.

5.56mm NATO:

# Beretta AR 70

*The semiauto type of this military assault rifle is effective . . .*

By Jim Benson



Testers fired the AR 70 at targets 100 yards away using a variety of .223 ammunition. All of the ammo was fired smoothly in the assault rifle with no malfunctions.



The AR 70 is capable of much tighter groups than this, but this was typical of those groups the testers shot in brisk wind at 100 yards while zeroing the rifle without a scope. The rifle has a built-in scope mount base and there are Beretta scopes made for it.

**T**HE Model 70 weapon system, produced in several variants, is Beretta's contribution to the .223, or 5.56mm NATO caliber assault rifle requirement.

Beretta and SIG began a joint study of



The AR 70 is sold with 8- and 30-round magazines, a sling and cleaning equipment. Here the 8-round magazine is loaded according to the operating manual instructions.

5.56mm rifles in 1963. After several years the two firms terminated their combined efforts and each developed their own 5.56mm assault rifle. Vittorio Valle at Beretta began work designing that rifle in 1968 and in 1970 Beretta introduced the AR 70 .223.

There have been two new series of this weapon system since then, the AR 70 80 Series and the recent 90 Series which are currently only available in Italy but, possibly within the next year, the AR 70 90 Series in full-automatic version will be available for sale to law enforcement, military and Class III dealers in the United States, according to a spokesman for Beretta U.S.A. Corporation, the Italian firm's U.S. company. Sometime after that, the 90 Series AR 70s in semiauto version will go on sale to the civilian market in the U.S.

The Model 70 assault rifles are used by Italian military and law enforcement units and are replacing the former military standard-issue BM 59 rifle in that country, according to the Beretta spokesman.

The AR 70 .223 uses a conventional gas piston and recoil spring system located above the barrel. This rifle has the twin lug locking system that is used in the U.S. M1 Carbine and Soviet Kalashnikov assault weapons. The AR 70 is a gas-operated weapon with a rotating bolt.

The 90 Series AR 70s will have such design changes as chromed barrels, a sight/carrying handle similar to the U.S. M16/AR-15 rifles and magazines which will be interchangeable with the M16/AR-15 rifles, according to Beretta.

**AR 70 Semiauto**—The staff of ASG was loaned an AR 70 Sport rifle with semiautomatic fire capacity. This is the AR, or "Assault Rifle" configuration. The Model 70s are also made as the SC 70 (Special Carbine) with folding stock, and the SC 70 Short with shorter barrel and folding stock. There is also a light machine gun variant of this weapon for military/law enforcement use.

The Model 70 rifles have only 55 parts and these are interchangeable, according to the literature I've read. Field stripping is a snap and it takes only a few minutes to disassemble and reassemble the rifle, once you know how it's done. The only tool needed is a .223 round to push out the

## Beretta AR 70

receiver retaining pin located in the trigger housing. Once this is done, the rifle breaks open, like an FN FAL battle rifle, for cleaning and inspection. One trick which must be learned is that the bolt must be slightly outside of the bolt carrier and turned just the right amount or the whole assembly will not go back into the receiver for reassembly of the gun.

We took this rifle to a private range where we used a Hoppe's Expert's Bench Rest and a standard bench rest to shoot a variety of .223 ammunition. The ammo included 55-grain Remington Hollow Point, Winchester Full Metal Case, Federal Full Metal Case Boat Tail and Hornady Spire Point bullets, as well as some Federal Blitz 40-grain Hollow Point ammunition.

In my opinion, we spent too much time trying to properly zero the rifle and failed to shoot the type of tight groups on targets placed 100 yards away that this rifle is



ABOVE — This cleaning gear comes with the rifle and can be stored in the pistol grip.  
BELOW — The AR 70 with the adjustable sling and 8-round magazine it is shipped with.



capable of. I found that on initially sighting the targets with the iron sights and merely adjusting the sight picture for where I found the bullets to be hitting the targets I was able to make much closer groups, including at least one pair of touching hits, which convinced me this gun is quite accurate.

I also found, as I have on other rifles with the same type of military battle sights, I prefer using the rear peep sight set for the longest distance with the smallest aperture when shooting even at 100 yards. I can hold a better sight picture this way. One other tester said I should stick with the larger aperture, in this case set for 150 meters, rather than the smaller one for 300 meters, so as to take into account bullet drop and so forth. Maybe so, but I personally find that I shoot better at 100-meter/yard ranges using the smallest aperture available.

We found that this gun ate anything we fed it in .223 without so much as a single malfunction in something like 100 or more rounds run through it. We like the way this rifle handles and feels when hefting it around or shooting it. It's light, rugged,

reliable and functions smoothly. There's not much recoil or muzzle flip with this rifle. Beretta has lived up well to its long tradition of making high quality firearms with the AR 70. If you're in the market for such a weapon, look over this one. For more information, contact Beretta U.S.A. Corp. ●



Field stripping into basic components takes seconds only. The bolt carrier and bolt must be positioned as shown here before they can be placed back into the receiver in reassembling the rifle.

### Beretta AR 70 Semiautomatic Rifle: Tech Specs

Weight w/o magazine and sling .....	7.7 pounds
Weight with sling and loaded 30-rd magazine .....	9.3 pounds
Length .....	37.6 inches
Barrel .....	17.8 inches
Rifling .....	R.H., 4 or 6 grooves, 1 turn in 12 inches
Breech mechanism .....	rotating
Method of feeding .....	8- and 30-rd magazines
Cooling .....	air
Caliber .....	.556mm NATO (.223 Rem.)
Muzzle velocity .....	3,150 ft./sec. (approx.)
Muzzle energy .....	1,168 ft.-lbs.
Cyclic rate of fire .....	700 rds/minute (approx.)
Maximum range .....	2,600 meters (approx.)
Maximum effective range .....	500 meters
Manufacturer .....	Fabbrica d'Armi Pietro Beretta S.p.A., Italy
U.S. distributor .....	Beretta U.S.A. Corp., Dept. ASG, 17601 Beretta Drive, Accokeek, MD 20607 Telephone: (301) 283-2191
Price, suggested retail .....	\$770

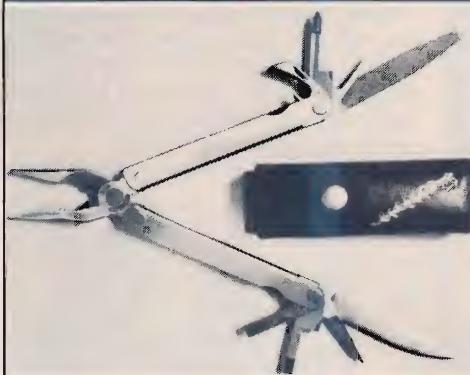


Front sight is a post with protective wings and is adjustable for elevation. Rear peep sight has two settings, for 150 and 300 meters and is adjustable for windage.



Accuracy testing firing a variety of ammunition at targets 100 yards distant and using a Hoppe's Expert's Bench Rest showed the AR 70 is capable of tight groups.

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Basic Setup:

# Getting Started In Blacksmithing



*The ability to work metal is basic to maintaining civilization . . .*

By Martin Kruse

smithy is the place where smithing work is done; the person who does the work is a smith), but just about every ranch or farm had a forge and anvil and a few tools in a corner of the barn. A big spread often had a fair sized setup and employed a full time smith to run it. What's more he was usually one of the best paid men on the place; talk about the good old days.

Why all this emphasis on a skill which seems so irrelevant today? After all, how many people today ever require the services of a blacksmith? Most people, especially city folks, under 40 have never even seen a blacksmith at work. So why does a survival group or community need a blacksmith? It's simple really. The ability to work metal is basic to maintaining civilization. Before the old smiths developed the machinery which eventually made them an endangered species, just about every tool or implement made of iron or steel was the result of a blacksmith's labor.

Every other craftsman and laborer came

**I**NDEPENDENCE and self reliance are the cornerstones of survival. The foundation you choose to build will depend on your personal philosophy.

You may anticipate social collapse and a breakdown of the system or you already find the system distasteful and have chosen an alternative lifestyle. You may be planning or building a retreat or bolt hole in case of long- or short-term crisis or you might have already made the move. Perhaps you're planning to or already have become part of a self-reliant community.

Regardless of philosophy, anyone wishing to achieve a degree of non-dependence should acquire at least some capability at blacksmithing.

To make my point I'd like to direct the reader to take a look back in history to pre-industrial America. In fact, any survivalist can do well to learn how a lot of things were done before we became dependent on electronics and oil. Not only did every town or settlement have at least one smithy (the



The smithy doesn't have to be anything fancy. All you need is enough space for your equipment, a roof for shade, and a floor that won't burn.



Two differently shaped hardies rest atop an anvil on which they are used for cutting hot metal.

to the blacksmith for their tools. Everything from picks and shovels, axes, chisels, crowbars, hammers, nails, nuts and bolts, shears, awls, knives, actually, just about every tool you can think of as well as most household and kitchen implements of the day were made by the smiths. The smith also made most of his own tools. A competent smith need never lack for tools or weapons.

Fortunately for the survivalist a smithy is a fairly low-tech proposition. The same things that worked 100 or more years ago still apply. It's up to the individual not to get dependent on gadgets. I've often said that I could walk into a smithy from any point in history and set to working. Recently I've had a chance to put my money where my mouth was. A couple days a week I run the blacksmith shop at a

local museum. The shop and everything in it are over 100 years old. I've forged tools ranging from punches and chisels to butcher knives to sabers in that old shop. I haven't found the lack of electricity or power equipment at all limiting. True, some things take longer but the finished items are as functional as any made in a more modern shop. I've even set up my own shop with non-electric powered backup for every function.

**Basic Setup**—So let's discuss what you'll need for a basic setup. The first thing is a suitable work place. The requirements are pretty simple. You need shade over the forge area as direct sunlight makes it impossible to judge the color (thus the temperature) of the metal. Keeping the rain off you and the equipment is an added plus. The roof must be of nonflammable material. Corrugated sheet metal has become pretty much the standard (chestnut trees have gotten real scarce of late). A dirt floor is ideal but a concrete slab will do. Nothing here that will burn because occasionally hot metal will fall to the floor. Walls are strictly optional. Just remember, if you do make it an enclosure, a forge produces a hell of a lot of carbon monoxide. An extra wide door will provide proper ventilation for the smoke and dust to clear out, is a real convenience and will make working a lot more enjoyable.

Now that you've got a place to put it you

can start assembling the equipment you'll need. The one item which you'll unquestionably be better off buying than attempting to make or improvise yourself is an anvil. The best ones come from England, Sweden, or Germany. I'll give a list of some suppliers later but you may be able to save a little money by finding a used one. Make sure the working surface is in good shape avoiding any that are badly chipped. You want one with a tempered face. It



Kruse uses an old fashioned grinding wheel but it gets the job done.



ABOVE—Three different electric forge blowers used by the author.

LEFT—A handy workbench is a must for the blacksmith.

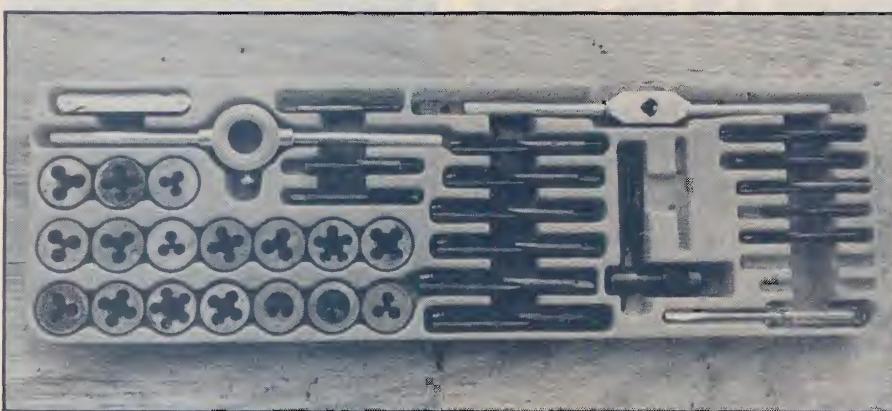
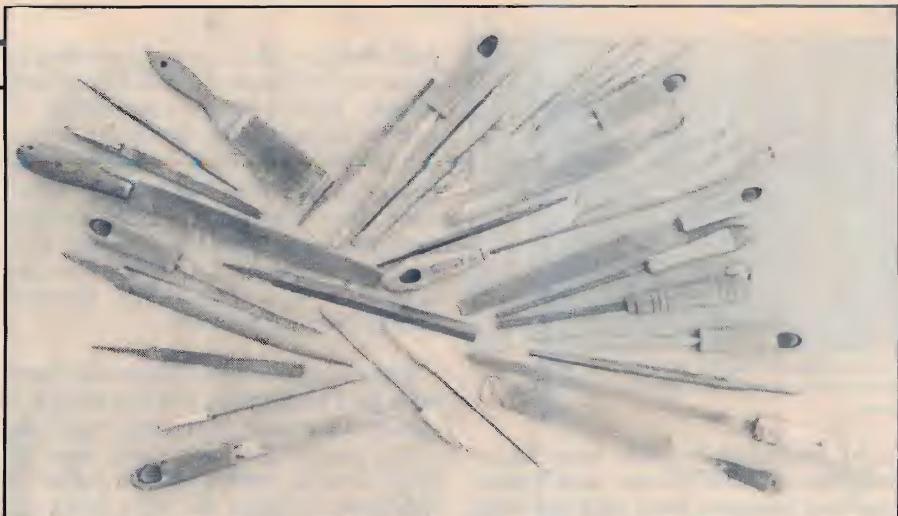


ABOVE & RIGHT—The top and bottom of the author's home-built forge where he does 90 percent of his blacksmithing work. The hand-cranked blower is an old Champion 400 about 80 years old. Pipe fittings beneath the forge connect heater hose for air intake and ash dump.



## Blacksmithing

Some of the basic tools used by a blacksmith are, hammers, tongs, hack saws, files, taps and dies, chisels, and drills.



should give a good lively bounce to your hammer, working on a "dead" anvil is drudgery. The anvil will require a stand on which it can be mounted solidly at a convenient working height. You can either make or buy one. The traditional log butt works fine if you can find one or you can make a substitute from heavy planks. A metal barrel filled with concrete and with some lead poured on top also works well.

You'll need a forge. Commercially made ones are available, but they've always seemed outrageously expensive to me. You may be able to find an old one in working condition at a decent price or you can make your own. I have four in my shop, my main working forge; two portables which I use for demonstrations at fairs and such (which mostly sit around taking up space); and a specialized unit for heat treating long pieces such as sword blades, crossbow prods, long springs, or large prybars. One of them, a portable, is an old one which I bought and restore, the other three are of my own construction. The one illustrated was built from an old brake drum, some pipe fittings, and scrap metal and is adequate for most jobs. It took less than a day to construct and cost very little. You can get more elaborate if you wish but the principal is the same.

The forge achieves its intense heat from air being forced through the fire. You need some form of blower. Electric blowers are available that run on both 12 and 110 volts. Hand cranked units are still made by Buffalo Forge and are available from Cen-

taur (see list of suppliers). I believe Champion is out of business but their blowers seem to last forever so you may be able to find an old one. I've also seen instructions for building blowers and bellows in several books but I've never tried it. If you decide to, let me know how it works.

Besides the forge, anvil, and blower you'll require a slake tub. This is nothing more than a large wash tub or a half barrel that can be filled with water for cooling work in progress and wetting down the coal to control the fire. Either wood or metal will do fine but avoid plastic since it will melt. Also, you'll want an oil barrel for quenching when you're tempering tool steel and a coal barrel. Old oil drums cut in half work fine for these purposes.

A good sturdy workbench is a must. You should be able to build this yourself and can probably even scrounge the materials for nothing if you're resourceful. Some sort of vise to hold the work will save a lot of frustration during some operations. A machinist's bench vise will do but a blacksmith's post vise is better.

**Other Tools**—You'll need a few other tools to get started. After you've purchased the first few you can make almost all the others you need. Making your own tools is a pretty good way to learn smithing. Let's discuss what you'll need by categories.

Tongs are used to hold the hot metal while you're working it. They come in an infinite number of sizes and shapes for dif-

ferent work. Most of the books advise that you can't have too many, and I know a few smiths who have racks of a hundred or more. I have about a dozen and it seems like I use three or four with any frequency. They're fairly simple to make. Buy one or two pairs to get started and make the rest as you find the need for them. In this department, I think Vise-Grip type locking pliers are the best thing to come down the pike in a long time. These would be tricky to make so go out and get several pairs.

Hammers are what you actually shape and form the hot metal with. Most smiths have at least a half dozen they'll tell you





they can't get along without. I've probably got three dozen in my shop and I use every one. They range in size from two ounces to eight pounds with a wide variety of shapes and faces, including a few that I had to make because they're not available commercially. The most useful hammers for general forging are in the range of one-and-a-half to four pounds. Get a cross pein, a double face, a ball pein if you want it and a straight pein if you can find one. These will get you started. You can decide if you need more as your technique develops. If you'll have a helper in your shop who can strike for you, get at least one full sized sledge of eight or 12 pounds. If you have a real bruiser who can handle it, a 16 pounder can be real nice for large projects.

You'll need to have some means of cutting metal. A hack saw and supply of blades are handy and no shop should be

without one, but, as you progress in your smithing ability you'll find ways to avoid this form of drudgery. Cutting iron or steel is most easily done when it's hot. The simplest way of handling cutoff chores on rod or bar stock is with a hardy. This is a chisel-like tool which fits in the square hole in your anvil which, incidentally, is called the hardy hole. The red hot metal is cut by placing it on top of the hardy and striking it with the hammer. They're fairly simple to make or you can buy a pretty good one for about \$20. In addition, you may wish to obtain an assortment of hot cutter chisels, cold chisels and maybe even a shear of some sort as you expand your operation.

You need some way to make holes. If your shop has a source of power (electric, gas or steam engine, water wheel, or mule) a good drill press will come in handy. I don't believe anyone is still manufacturing hand cranked ones (if you know of anyone who is I'd sure like to know about it). They're getting hard to come by these days but you might be fortunate enough to find one. Twist drills are tricky to make until you've had a lot of practice, buy several sets. If your shop doesn't have a drill press that's OK too. You can put holes in metal by heating and punching. If you need a precise size hole you may have to punch it under sized and ream it but you can make all the punches and reamers you need without too much trouble. You can do all your wood drilling with a bit and brace if you have to. If your budget's a little tight or you feel ambitious you can make these. The brace isn't too difficult and wood boring bits are much simpler than steel cutting twist drills.

Taps and dies for cutting threads come in real handy when you're assembling things. Making these is beyond the skills of most beginning smiths, consider buying a few to get started.

You'll need files for fitting, finishing,



### Suggested Reading

*The Art of Blacksmithing*, Alex W. Bealer. Funk & Wagnalls.  
*Country Blacksmithing*, Charles McRaven, Harper & Row.  
*Edge of the Anvil*, Jack Andrews, Rodale Press.

### A Few Suppliers

Centaur Forge Ltd.; P.O. Box 340; 117 N. Spring St.; Burlington, WI 53105.  
The Horseshoe Store; 2801 N. San Fernando Blvd.; Burbank, CA 91504.  
Glendale Forge, Monk Street, Thaxted, Essex, England.

final shaping, sharpening and a million other things. It would be possible to write a book just on types of files and their uses. I don't believe it's possible for a shop to have too many of them. They're difficult, tedious, and time consuming to make by hand. As long as they're commercially available, consider it money well spent and buy a bunch.

A grinder, like the drill press, is real handy to have but not absolutely necessary. If your shop has power, you've got a wide selection to choose from. If not, there are still possibilities. Gear driven, hand cranked grinders are still made, at least I've seen them in hardware stores. Also available new are hand cranked wet wheels which use aluminum oxide grinding wheels. These do a reasonably good job and would be fairly simple to convert to treadle operation for one person use. At one time just about every smithy, even small barnyard operations, had one of the old treadle powered sandstone grinding wheels which ran either in a water tray or with a drip funnel. If you can find one of these today consider yourself fortunate. If the stone itself is in good shape and the price is reasonable, grab it. You can rebuild the rest of the mechanism yourself.

Well, that pretty much covers the basics. Of course, there are still a couple hundred odds and ends (fullers, flatters, swedges, mandrels, etc.) that you'll want later. The list can fill pages. What we've discussed here should be more than adequate to get started, and you're probably better off waiting to acquire the rest until you've had a little experience. Hammer some hot metal, read a few books, look over the equipment catalogs, then hammer some more. Then you'll be able to make informed decisions as to what else you need.

If I can be of any further help feel free to write Martin Kruse; POB 487, Reseda, CA 91335. Please be patient for your answers, making knives still comes first here and a stamped self addressed envelope is appreciated.

(More on page 73)

Epidemic:

# AIDS — A Viral Pearl Harbor?



This article is reprinted from the Journal of Civil Defense, April 1987 issue, with permission—The editors.

**A**IDS is an acronym meaning "Acquired Immune Deficiency Syndrome." The term reflects how little we know of this viral syndrome.

There are in fact many acquired immune deficiency syndromes. These may result from a multitude of causes: other viral diseases; bacterial infections; the side effects of some medications (Sulfa drugs, among others); malignant diseases; medications used to deliberately lower immun-

*Strong steps must be taken at once, before the majority of our population has the AIDS virus . . .*

By Max Klingenhofer, M.D.

ity, as in organ transplants; and ionizing radiation. In many of these (not including malignancy) the defect may be reversible, provided the offending agent is removed and specific supportive measures are taken. AIDS, however, is unique in that, so far as we know today, it is not reversible.

AIDS has become the common terminology designating a syndrome which is caused by the HTLV-III virus. There are in reality multiple syndromes. The virus may be detected in some individuals who have no signs of the diseases which characterize AIDS. Other individuals may exhibit enlarged lymph nodes, and little else; but they also have antibodies for AIDS. Still others have the full-blown development, with a positive test for AIDS antibodies, and the dire picture of opportunistic infections which may be terminal; or the presence of some of the less common malignancies. It is too early to know if those who have the first two syndromes will eventually succumb to the third development of this disease. But it is quite certain that those who test positive for the virus are capable of transmitting the virus.

The AIDS virus is transmitted largely by sexual contact; by the use of contaminated blood products; or by the use of common hypodermic drug paraphernalia. At this time approximately 73 percent of the known AIDS patients are male homosexuals; about 25 percent are drug users who share hypodermic equipment. What is perhaps less well known is that the use of a common hypodermic syringe, with a fresh needle for each user, still involves great risk. This is due to the fact that upon inserting the needle into the tissues, hydraulic pressure forces some fluid back into the barrel of the hypodermic syringe, thus contaminating it for all subsequent users.

The balance of the victims are in a miscellaneous group, including babies who have contracted the virus from their mothers. (These statistics are for the United States; and the figures vary in other countries.) What should be noted, how-

ever, is an increase in cases of AIDS among heterosexual individuals. This may be due largely to contacts with bisexuals and to multiple sex partners. A growing number of heterosexuals have acquired the virus *in ways not yet fully explained*. If an individual has the AIDS virus, that virus is present in most body fluids, including blood, semen, saliva, tears and vaginal secretions.

The spread of AIDS has been so rapid throughout the United States and throughout the world as to cause alarm in every sociological sector. It is being compared with other great plagues, such as the "Black Death" or Bubonic Plague. Statistics on the incidence of AIDS are not accurate, and are probably misleading, since there are evidently many people who have the virus, but in whom the disease has not yet been diagnosed. Meanwhile, these undiagnosed carriers are, innocently or otherwise, transmitting the virus to others.

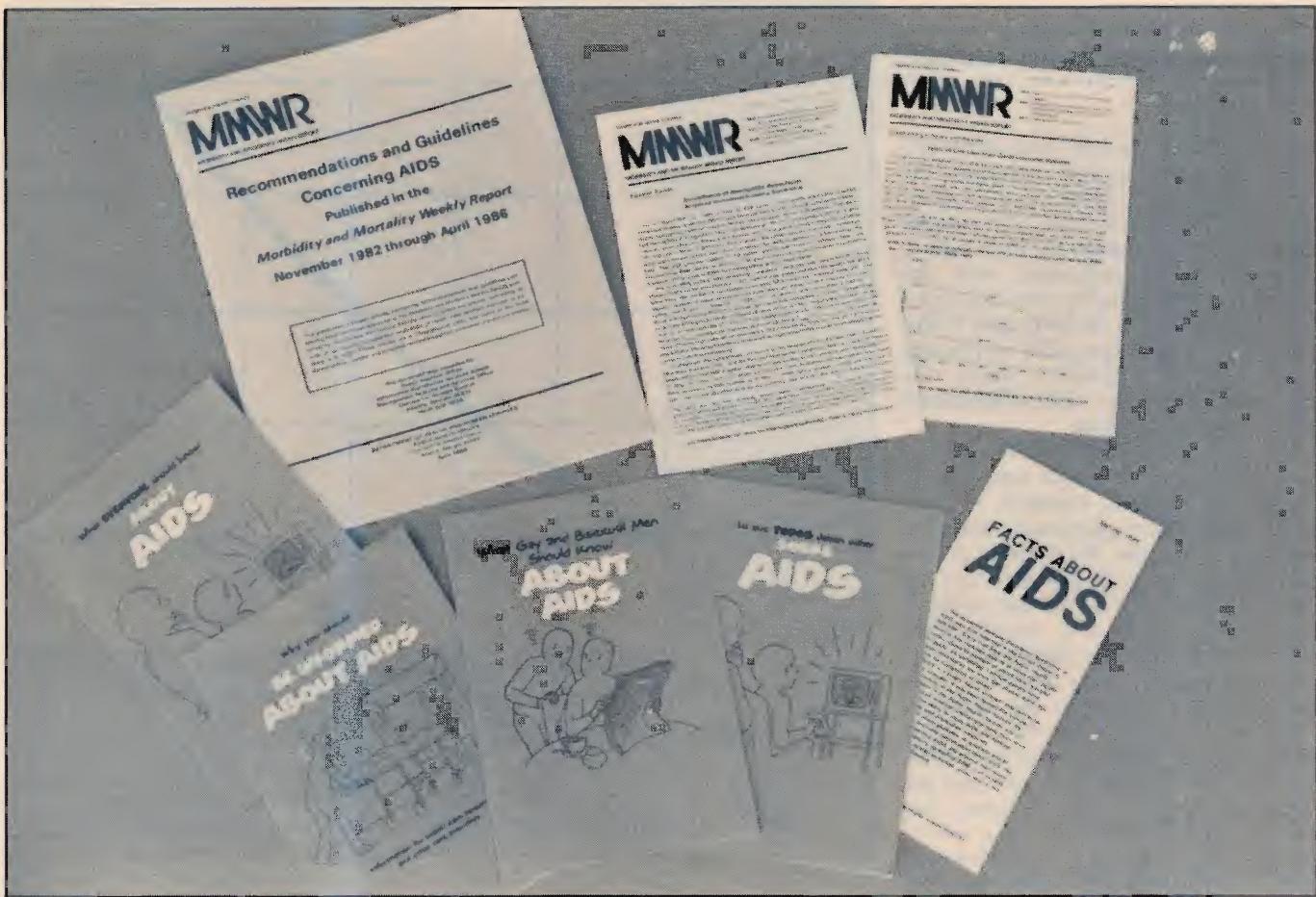
Research on an ever-increasing scale is now being conducted to learn more about the AIDS virus; and to discover effective means of prevention and treatment. But there are major obstacles:

1. The incubation period of AIDS is often very long, certainly as long as five years, and possibly as long as fifteen. The individual who is exposed, and who contracts the virus, may show no symptoms for many years—and possibly never; but he is still a danger in that he is a carrier.

2. The virus is capable of undergoing mutation after mutation as it changes its character. It may change its susceptibility to chemical or biological agents which initially have an effect upon the virus.

3. In most cases where a bacterium or a virus invades the body, the body responds with one or more immune mechanisms. These immune mechanisms recognize the invader, and set in motion a complex series of events in which the immune mechanisms of the body isolate, attack, and destroy the bacteria or viruses. But the AIDS virus is unique. As it invades the

(Continued on page 36)



These are some of the materials on AIDS available from the Centers for Disease Control in Atlanta, part of the U.S. Public Health Service.

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## AIDS—A Viral Pearl Harbor?

(Continued from page 34)

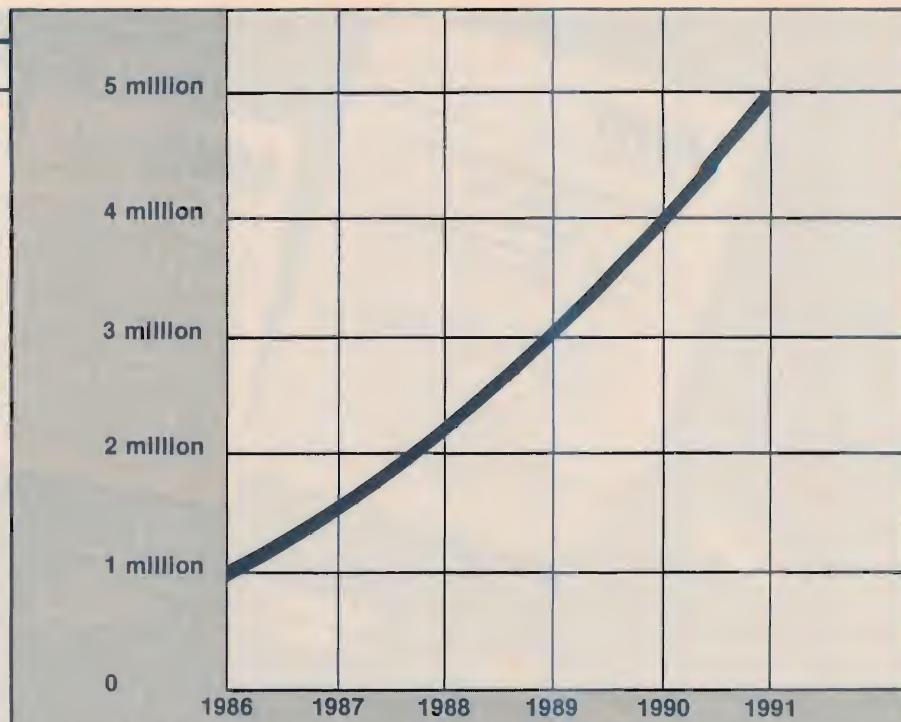
body, it initially destroys those cells which would normally set into operation the defense mechanisms of the body. Further, the virus reproduces itself, and invades other cells. In this sense, the body cells of immunity almost collaborate with the enemy. Thus the invading virus becomes a sort of parasite upon the body cells. It also renders these cells incapable of resisting other types of infections. Hence, the opportunistic illnesses which characterize the fatal AIDS syndrome.

The most severe AIDS syndrome is characterized by swollen lymph nodes, fever, weight loss, diarrhea, weakness, and any of the concomitant opportunistic infections resulting from the breakdown of the immune system. It is apparent that the above symptoms are varied and certainly non-specific. It is this *non-specificity* which is *conducive* to a patient harboring the AIDS virus for many months or years and promoting a delay in the diagnosis. There is at present a test for the AIDS virus, and new tests are being developed. But the very fact that these new tests are being developed would indicate that present tests for the virus may not be highly accurate; and that in the future we may have available tests which are more accurate.

**Casual Contact**—Can the AIDS virus be spread by "casual contact?" This is one of the major questions today in the problems of stopping the epidemic. Most research workers in this field today believe that AIDS is NOT spread through casual contact. They cite impressive statistics about the number of "casual contacts" (as, for example, the household in which an AIDS patient lives; or the handling of AIDS patients by medical personnel) and the fact that few, or none, of the individuals in close proximity to the AIDS patient have tested positive for the virus. It is to be fervently hoped that this is correct!

But they have reached a conclusion—a deadly important conclusion—without sufficient scientific evidence. It is known now that the incubation period of AIDS may be several years. Some workers in the field think it may be over fourteen years. AIDS was first described in the United States in 1981. How can we then say it is not spread by casual contact? What can we say if fourteen years from now there is an epidemic of AIDS among those who had "casual contact" with AIDS victims in 1986? Sufficient time has not yet elapsed; only a small percentage of our population has been tested; and our tests are still not perfected. Predictions on the modes of spread of a disease should never be made prematurely—and especially where the disease has a long incubation period and slow-developing symptoms.

There is another problem in the matter



Estimate of number of people infected with AIDS in the United States, 1986-1991.

("Anyone who has been infected is considered capable of transmitting the virus to others."  
—American Council on Science and Health.)

of "casual contacts." What is the definition of "casual contacts?" Is it someone who shakes hands with the patient? Or someone who eats food prepared by an AIDS patient? Or someone who uses the same bathroom? And what of an ambulance attendant who is bespattered with the blood of an AIDS patient? If these contacts develop AIDS fifteen years from now, what do we do? Apologize for our premature conclusions? Let us consider an extreme example: that of a young ambulance attendant, recently married. In responding to an emergency call he finds himself covered with blood of the victim. Only two days later does he discover the victim had been diagnosed as an AIDS patient. Does the ambulance attendant continue to live a normal married life? Shall he plan to sire children? Who is there with sufficient knowledge to counsel him about his future? The simple fact is WE DO NOT KNOW. And how much better would it be if our scientific community acknowledged that we do not know, and if they were to defer conclusive statements until we do? And if we based our handling of such cases upon this admission?

It has been fairly well established that the AIDS victim carries the virus in most (or all) of his body fluids. What happens if the food-handler AIDS victim coughs or sneezes on the food he is serving? What happens if the AIDS victim (perhaps not aware that he is carrying the virus) sneezes while he is caring for the injuries of a casualty with open wounds? Some workers in the field go so far as to downplay the

risks involved in the needle stick by a used hypodermic needle. What are they trying to tell us? That a lot of virus is dangerous, but a little bit of virus is safe?

We have been inundated with media information (or is it misinformation?) on the subject of AIDS. We are reassured that blood transfusions are "safe" because there are now tests available which indicate if the donor does or does not have the AIDS virus. This sort of information cannot be blamed on the media alone. Usually they obtain such information from "experts" in the field. But with the lack of knowledge about AIDS, perhaps there are no "experts." What happens if a donor has just recently been exposed to the AIDS virus, but his tests for the virus are still negative? He donates blood which is already contaminated with the virus, but a month later subsequent tests reveal he does carry HTLV-III. What do we now tell the recipients of that blood? Is an apology sufficient for a death sentence?

Further, all laboratory tests are subject to a certain percentage of error. If medical history is repeated, it seems likely that a few years from now we will have tests of greater accuracy, and we will look upon today's tests as obsolete. The Wasserman test for syphilis, developed in the early part of this century has been replaced again and again by tests of greater accuracy, and the diagnosis of syphilis can now be made with more certainty. But in the early days of serologic diagnosis, how many cases of syphilis went undiagnosed? And, perhaps

(Continued on page 38)

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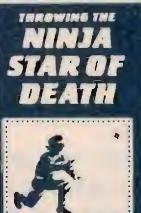


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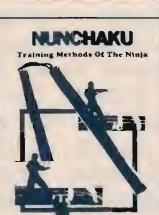


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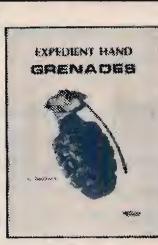
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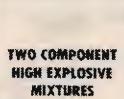
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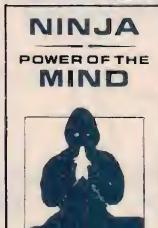
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## AIDS—A Viral Pearl Harbor?

(Continued from page 36)

even more important, how many individuals were incorrectly diagnosed as having syphilis (the BFP, or biologic false positive), and how many were thus stigmatized? How many BFP individuals were treated for syphilis with highly toxic heavy metals? It is an error to make conclusive statements when they may be based upon tests which are not conclusive.

With the advent of AIDS certain serious social problems become much more serious.

Although the Bureau of Prisons denies there is any increased hazard of AIDS due to the prison environment, this statement seems implausible. There can be no doubt of the high incidence of homosexual rape. If we consider a cross section of prison inmates, can there be any doubt that our present prison system is conducive to the spread of AIDS? Can there be any doubt that our prisons will become still another reservoir of the disease? There is another aspect to the prison dilemma. When a man is imprisoned (let us say for a non-violent crime) could we be condemning him to death by AIDS? Considering the overcrowding of prisons, and the incidence of homosexuality, are we not sentencing these prisoners to cruel and unusual punishment? Prison officials may say they have not seen an increase of AIDS in the prison population; but they are ignoring the long incubation period of the disease; and they are possibly ignoring the lack of medical follow-up of released prisoners.

Another major sociological aspect of the disease is forcible rape. It used to be a capital offense. Men were executed for the crime. In the liberal climate of today, the offense of rape is looked upon with greater tolerance. "After all," say the liberals, "she was not murdered." The crime of forcible rape is much more serious than many will admit; and it has become vastly more serious since the AIDS epidemic. The victim of rape must now live with the

knowledge that she or he may contact AIDS. Rape victims today are routinely tested for exposure to sexually transmitted diseases. But how do we test such a victim for AIDS? How can we assure her/him that she/he will not have AIDS years from now? Can we tell her/him that she/he may safely marry and have a family? In the light of our present knowledge (or lack of it) concerning AIDS, the crime of forcible rape should once again be viewed as a major capital offense and carry a correspondingly severe penalty.

There has been much talk in recent months concerning the control of the epidemic of AIDS. Emphasis has been on "education," and on the use of preventive measures. As in other areas of emergency preparedness neither of these methods will totally furnish the answers needed for a critical situation. For instance, the drug addict desperately in need of a "fix" is just not going to consider the risks in using a common hypodermic assembly. After all, every time he uses the drug, and not knowing the actual source or the degree of purity or adulteration, he places his life in jeopardy. The thought of a contaminated needle is not going to deter him.

**Quarantine**—The halfway measures that have been proposed will not be the answer to the AIDS epidemic. What will be needed are mitigation policies and procedures. Sooner or later we must come to the realization that some form of quarantine will be necessary if we are to control this plague. This is not to say that educa-

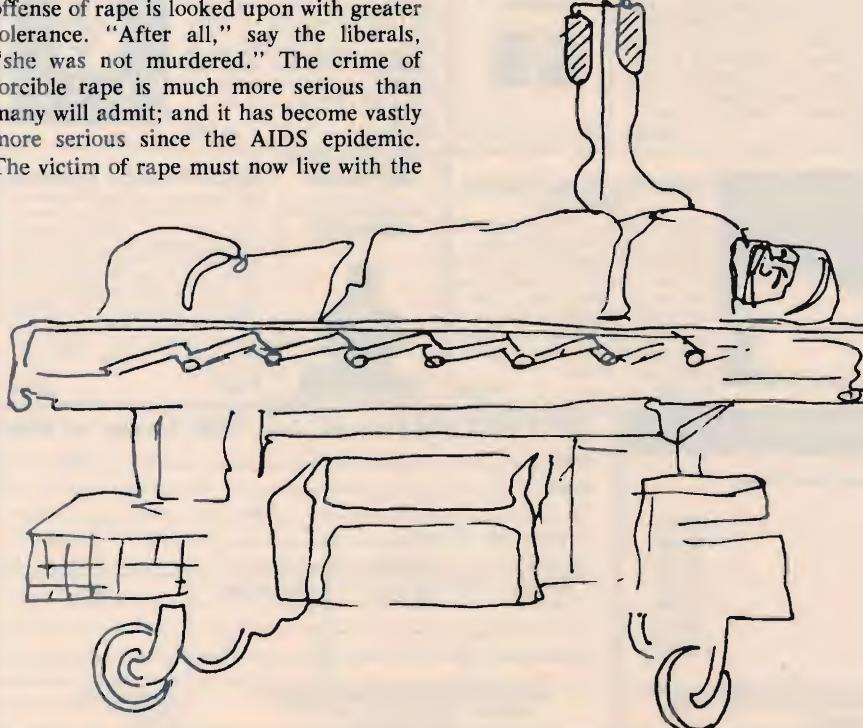
tion has no value in the control of the disease. In fact, *unplanned* education has already played a role. Publicity about AIDS has resulted in the change of sexual habits of many people. However, we need to be concerned about the vast number that education methods, for one reason or another, will not reach.

The term "quarantine" is not synonymous with incarceration. There are degrees of quarantine, all of which have previously been endorsed by the medical community and society in general for many common contagious diseases. Unless some very dramatic break-through appears in the immediate future with regard to cure and prevention, some form of quarantine is necessary if we are to survive. The government must act, and it must act before the epidemic is literally out of control. Actions must be taken utilizing the advice of those epidemiologists and other scientists who are not intimidated by the political lobby of the homosexual community and other groups. In fact, if given accurate data, the homosexual groups should be the first to support measures to stop the epidemic, since they are the major percentage of the current victims. Again, incarceration is not the answer (except in those cases where an AIDS victim violates the "rules" and knowingly spreads the disease). But AIDS patients should not be food handlers; they should not be in jobs caring for children; they should not be in hospital work which brings them in contact with patients; and they should not be in any occupation which brings them into intimate contact with other individuals. These regulations should apply unless we find out BEYOND ANY DOUBT that AIDS cannot be spread by these modes of contact.

Should regulations be set forth, there will of course be a great outcry about "civil rights." But if there are, let us say, one million AIDS patients in the United States today, what then of the civil rights of two hundred thirty million of our citizens?

Strong steps must be taken at once, before the majority of our population has the AIDS virus. If not, we shall all become unwilling characters in Edgar Allan Poe's novel, *The Masque of the Red Death*. The first two sentences of the novel read: "The 'Red Death' had long devasted the country. No pestilence had ever been so fatal or so hideous." The novel concludes: "And darkness and decay and the Red Death held dominion over all."

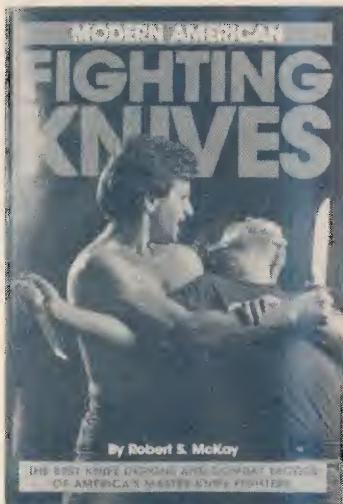
With today's tremendous advances in medical science and our greatly expanded capability for effective research, AIDS can be conquered IF we recognize the extent of the problem and IF we devote our combined efforts and resources to prevention and cure. A major offensive, a MANHATTAN-type project, would produce victory.



## Books/Videos

(Continued from page 16)

and discusses and illustrates standing kicks, jumping kicks, stomps, knees, sweeps and takedowns, blocks and self-defense techniques. The book is clearly written and well illustrated with many drawings and photos of the techniques and exercises employed in fighting with your feet. It's a worthy addition to a martial arts/street survival library.



**Modern American Fighting Knives**, by Robert S. McKay; Unique Publications, Dept. ASG, 4201 Vanowen Place, Burbank, CA 91505; 150 pages; softcover; \$8.95 plus \$1.50 shipping/handling (CA residents add 6½ percent sales tax); ISBN: 0-86568-086-8.

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(Continued on page 40)



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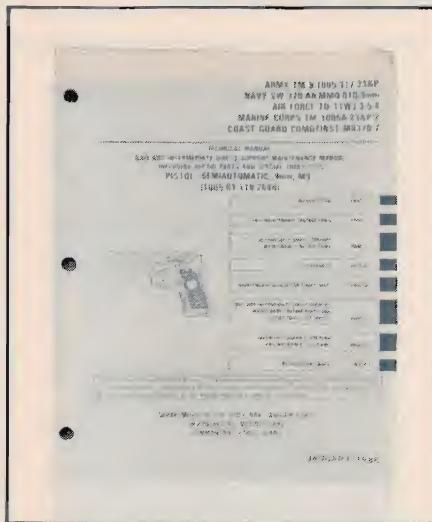
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## Books/Videos

(Continued from page 39)

approach. Understandably, the topic of knife wounds is discussed in this section, as is important information on fighting knives and the law. This book reads fast and easily, and is loaded with pictures of many knives and self-defense illustrations suited to the serious fighting knife enthusiast.



**U.S. M9 Semiautomatic Pistol Technical Manual**, 1005-01-118-2640, Departments of the Army, Navy and Air Force, Headquarters, Marine Corps, Commandant, Coast Guard; available from Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822; about 100 pages, softcover; \$9.95 postpaid.

This is the latest technical manual for operation, maintenance and trouble shooting for the Beretta 9mm military pistol, designated M9 in the military and known on the civilian market as the 92F. It is a unit and intermediate direct support maintenance manual including repair parts and special tools lists. Included after the introduction are unit maintenance instructions, intermediate direct support maintenance instructions, references, maintenance allocation chart, repair parts and special tools lists, expendable/durable supplies and materials list and alphabetical index. While there is a lot of technical jargon that won't be of particular concern to the civilian reader, this manual does have much valuable information regarding proper operation, maintenance and trouble shooting to impart to the reader. You will find material on the location and description of major components, field stripping instructions, and procedures for identifying and correcting problems such as a slide failing to lock or a misfire. You'll see military procedures for storage and shipment of these guns. Additionally, there are appendices for references to other technical manuals with pertinent information on the gun such as regulations for its use and

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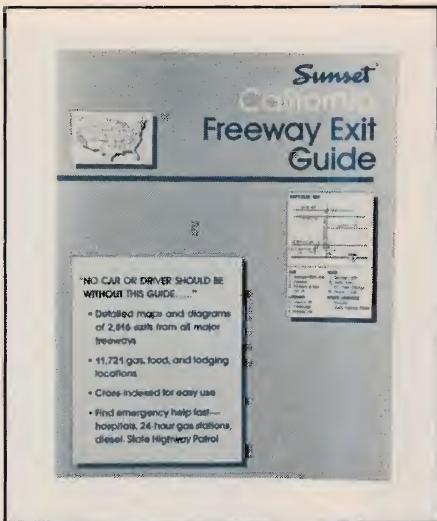
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training with it; for explanation of maintenance and repair functions, and parts and repair tools. The manual is illustrated with detailed drawings. All in all a useful and informative book to have around if you want to know more about your Beretta 92F.



**Sunset California Freeway Exit Guide**, by Bill and Saundra Cima; American Travel Publications, Inc., Dept. ASG, 6992 El Camino Real, Suite 104-199, Carlsbad, CA 92008; 346 pages; softcover; \$9.95; ISBN 0-936929-01-4.

Freeways and stress are synonymous. In particular, the California freeways—not only due to the increasingly heavy traffic, but for a number of other reasons as well. For instance, getting lost by taking the wrong freeway, missing a turnoff, or even running out of gas are not uncommon problems. It would also help to know which exit leads to your favorite food stop. How can we reduce these tensions associated with freeway driving? *California Freeway Exit Guide* can help. It won't reduce the number of cars on the road, but it does provide helpful information. The guide offers detailed maps and diagrams of 2,816 exits from all major freeways; 11,721 gas, food and lodging locations; assistance in finding emergency relief fast—with valuable tips from the Highway Patrol. This is all organized with a cross index for easy use. The guide is broken down into five geographic areas: Northern California, Northern Central California, Central California, Los Angeles vicinity and Southern California. Within each designated locale, every freeway exit is extracted and framed to display what gas, food, lodging or other service can be found by taking that off-ramp. *California's freeway system* will always invoke some stress, but knowing where you are and having access to other important information can make freeway travel more relaxing. ●

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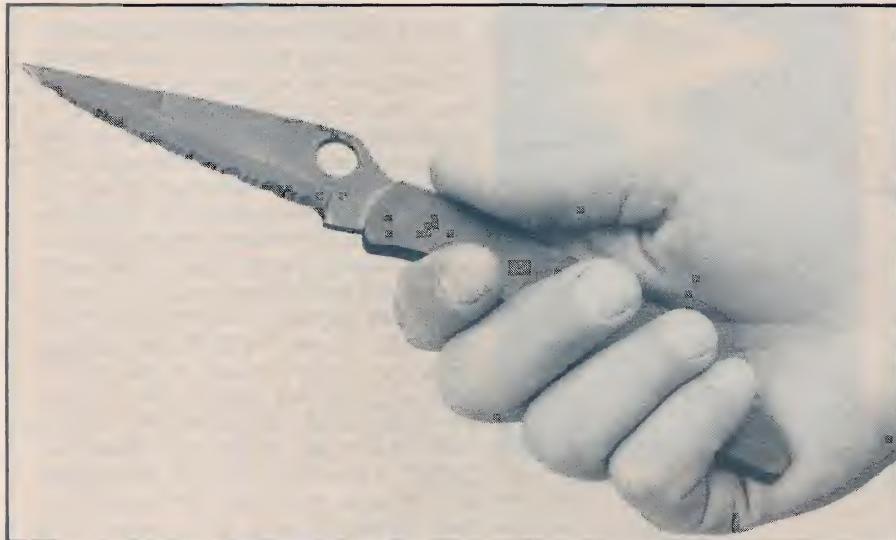
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*Spyderco's new black chrome sulfide coated Police Model Clipit . . .*

## Staff Evaluation



The test knife worked well and kept its finish.

**S**PYDERCO's new black chrome sulfide coated Police Model Clipit lockback folder is made of G-2 chrome molybdenum stainless steel. This is even stronger than the standard stainless steel Police Model Clipit Spyderco markets.

The dimensions are also the same as the original: 9 1/2 inches opened with 3 7/8-inch blade; 5 1/4 inches closed. The entire knife is coated with black chrome sulfide for a matte black, non-reflective finish that holds up well to wear. The new black model is available in serrated or plain edge and in right- or left-hand versions. Suggested price is about \$80.

We tried out the serrated, black chrome sulfide coated Police Model for about six weeks. Our tester wore the knife every day clipped to his pants pocket. It was used for all the usual chores we have for knives around the office and in the field: prying out large staples and cutting reinforced tape on boxes of merchandise shipped to us; cutting rope, string, duct tape and the like at the shooting range or in the office; opening heavy envelopes and letters; cutting open cardboard boxes for use as target backing; etc.

We found the black chrome sulfide Police Model's finish was as good the last

day of the test period as the day we received it in the mail. The serrated edge was just as sharp, too. These knives hold an edge exceptionally well. Apparently due to the coating, the blade was a bit sticky on opening the first few times it was tried. After that, it opened smoothly, swinging out and snapping into its locked open position with ease each and every time.

The black chrome sulfide coated Police Model can be purchased from your knife dealer or directly from Spyderco, Dept. ASG, P.O. Box 800, Golden, CO 80402-0800; (303) 279-8383 or toll free (800) 525-7770. •



The black chrome sulfide Police Model, right, is the same size as the standard stainless steel Police Model, left.



The test knife was right-hand version and was kept in the user's right pocket.

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By Carl H. Yaeger

*This is one of a series of articles that will run occasionally on terrorist groups and organizations and their supporters. This article deals only with individuals involved in such activities and is not intended to reflect negatively on other individuals of the same ethnic/religious/national backgrounds—The Editors.*

**F**IVE homemade pipebombs explode simultaneously at daybreak in downtown Manhattan. The Communist Party headquarters, two banks, and a subway exit near the United Nations are damaged.

A lone gunman, an American-born Jew, walks into the Dome of the Rock mosque in Jerusalem, one of Islam's holiest shrines, and calmly sprays the worshippers with automatic rifle fire from his M16. Two are killed. Many are wounded.

A restaurant in Brooklyn, New York,

specializing in Lebanese food, is destroyed by arsonists. Callers claimed that it was the headquarters for "Palestinian" guerillas. One person is killed and eight injured.

These seemingly unrelated events all have one thing in common: they are actions claimed by, or committed by Jewish extremists believed to be associated with the Jewish Defense League.

For the record, JDL spokesmen have repeatedly stated that the JDL is not a terrorist group and is not responsible for bombings and murders of Arab leaders and others considered enemies of the Jewish people by Jewish militants. But the FBI, in a 1985 analysis of terrorist incidents and terrorist-related activities in the United States, linked the JDL with 15 of 18 terrorist incidents since 1981 believed committed by Jewish extremist groups seeking to "publicize past and present injustices suffered by the Jewish people."

The Jewish Defense League was founded by Meir Kahane while he was a rabbi at

Rochdale Village Traditional Synagogue in Jamaica, Queens, New York City. The JDL was born out of the fear and resentment felt by inner city New York Jews towards militant blacks in the late 1960s. The immediate spur to the formation of the JDL was the firing of 19 teachers, most of them Jewish, by a black governing board in the school district of Ocean Hill-Brownsville. The Jewish community in New York charged discrimination. Some Jewish leaders compared it to the beginnings of the Nazi-induced holocaust in Germany. Paranoia, bordering on hysteria ran high in those Jewish areas bordering black neighborhoods. It was in this supercharged emotional atmosphere that Meir Kahane's Jewish Defense League was created.

Israel's first prime minister, David Ben-Gurion, proclaimed shortly after the formation of the state of Israel in 1948, "The world will see a new kind of Jew; one that can dig wells for his community, and

graves for his enemies."

Even the most vitriolic of Israel's enemies will admit that she has done exactly that. The Rambo-like victories of Israel's armed forces in the 1956 and 1967 wars with her Arab neighbors, reinforced that image and gave credence to a belief that Israel was invincible . . . and was now the Prussia of the Middle East. The reverses suffered by Israel in the 1973 Yom Kippur war proved otherwise.

Many of the more militant spokesmen in Israel and America—among them Rabbi Kahane, claimed that Israel's setbacks in the 1973 war were caused by the pollution of Israel's racial stock by inter-marriage with Israeli Arabs, and the loss of identity among modern Israeli Jews. In other words, Jews in Israel have forgotten their Jewishness . . . their heritage. The disaster of the Yom Kippur war was not only a military one, but a moral and spiritual one.

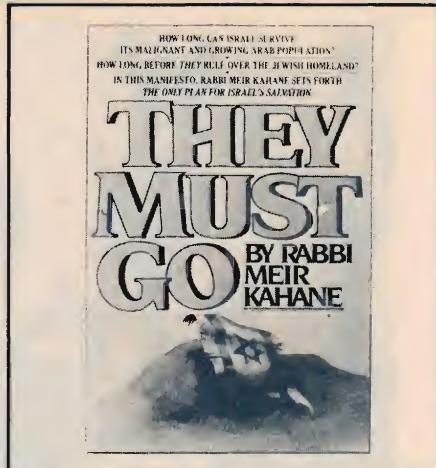
Kahane would make sure that American Jews, especially those who were joining the JDL, would not forget their Jewishness. Kahane's recruiting pitch in Jewish communities throughout the United States was primarily to young Jews with an identity crisis; to those who were disillusioned with the soft, predictable middle-class life; to those who wondered if the Jew had a future in America; to those who cried out for meaning in their lives, even if discovering this meaning meant picking up the gun, or the bomb, and finding their identity through violence.

Militant arm patches with the JDL insignia—a clenched fist inside of a Star of David alongside the phrase, "Never Again!" sprouted in Jewish neighborhoods and college campuses in the early 1970s.

JDL militants met black militants with patrols in Jewish sections of Brooklyn and the Lower East Side of Manhattan in New York City. JDL members on foot and vehicle patrols carried walkie-talkies, baseball bats, and bicycle chains. No guns or bombs yet. That was to come. The harbinger of greater militance was found in JDL slogans such as "For every Jew, a .22!" and, "The time has come to bury our respectability before it buries us!"

Karate classes were set up. A gun club called Palmach, named after the Jewish resistance/terrorist organization in Israel which helped gain her independence, was founded in New York. A military wing of the JDL, the "Chaya," (meaning animal squad) was created.

By 1971, Kahane claimed that there were 10,000 JDL members in America, although 1,000 was more likely. JDL groups and chapters sprang up in Philadelphia, Boston, Washington, D.C., Chicago. In 1972, a large and active chapter was operating in Los Angeles. Its leader was the legendary and charismatic JDL leader Irv Rubin, who had been arrested 39 times for militant activities. JDL chapters were formed on college cam-



*They Must Go*, written by Rabbi Meir Kahane, advocates the expulsion of Israel's Arab population.

puses throughout the nation and Arab students were beginning to receive death threats.

Like the Christian Identity movement on the Christian right wing of the American political spectrum, the spokesmen for the Jewish Defense League have their own paranoid vision of "Armageddon Tomorrow."

The JDL envisions a world in turmoil; a Western world grown so addicted to the technological "good life" of materialism that it will be ill-suited to meet the coming cataclysm; a world in which the economic system is starting to shudder before it convulses, and finally collapses. This economic collapse will become global and will exterminate nations and decimate lands and populations. It will be the precursor to a world-wide holocaust.

**Warning**—A warning message of the JDL to the Jews of the world is to leave the nations of the West, and particularly America, before it's too late. As Meir Kahane remarked in the JDL's *Jewish Defender* of June 1981, "He who refuses to leave, will remain joined in destruction to the foreign body he preferred to his own Holy Land. The remnants who do not flee and survive will, forever, be testimony to the blindness of those who did not." In other words, Israel will be the ultimate survival haven for the world's Jews during the coming global storms.

JDL literature paints a frightful picture of the second holocaust, and urges Jews, especially young militant Jews, to immigrate to Holy Israel now. Kahane, and other JDL writers, hammer home the theme of anti-Semitism; that as conditions grow worse for populations world-wide; as the once smug and secure middle class is wiped out and tumbles into the abyss of the "lumpen proletariat," that large exploitable labor pool of the chronically unemployed and underemployed, it will look for scapegoats. As Kahane points out:

"They, and many others will search for the culprit . . . for that group responsible for their plight. It will not be difficult to find a scapegoat who has been linked to liberalism, financial control, moderation

in international affairs, and racial harmony. He is called the Jew."

JDL leaders feel that as economic hard times befall millions in the Western world, the finger will point—as it always has—to the Jewish community in any particular country. They stress that immigration to Israel is the only solution and has, indeed, been ordered by God. The exodus back to the Holy Land has been proclaimed in the Old Testament:

"And I will gather you out of the countries wherein you are scattered, with a mighty hand and outstretched arm, and with fury poured out."

If Jews stay where they are, they will be "Naked to Mine Enemies," and will be snuffed out in the coming world-wide conflagration.

**They Must Go**—"If the Jewish Defense League is looking for enemies of the Jewish people to fight, there are millions of them.



Never Again! The slogan and insignia of the JDL.

They are called Arabs." So reads a statement by a JDL spokesman.

In the past several years, the JDL has shifted its operations to Israel, and Meir Kahane himself has moved there, embroiling himself in Israel's domestic politics, much to the consternation of Israeli officials and moderate Jews in the United States and Israel.

The JDL has established ZEEERO!—the Zionist Emergency Exile Evacuation Rescue Organization. Its ambitious program is to accomplish the immigration of the Jewish community in the United States —six million strong—before they are "liquidated" in the coming holocaust. A ZEEERO publication warns:

"There exists in America the haters, the fascists, and anti-Semites in abundance. They speak openly of gas chambers and of eliminating Jews. They mean what they say and no one knows if they can really be stopped if the conditions are ripe. The answer—the urgent answer—is to evacuate all American Jews and bring them home. Home to Israel! NOW!"

A nagging question arises: if these six million American Jews flee to Israel, where will they find room to live in such a small country? Meir Kahane provided that answer in his manifesto for Israel's salvation, the controversial book entitled *They Must Go*.

The cover statement, "How long can Israel survive its malignant and growing Arab population?" is the dominant theme of *They Must Go*. The answer is, of course, that the Jews of Israel cannot co-exist with the 1.2 million Palestinian Arabs on the West Bank and the Gaza—labeled by Jewish ultra-nationalists as the lost lands of Judea and Samaria, and within Israel proper. Kahane's book portrays all Arabs as filthy sexual maniacs who will control Israel because they are outbreeding the Jews. What *They Must Go* is advocating, is nothing less than a "final solution" for Israel's Arab population. Arabs must be removed forcibly, if possible, or exterminated if necessary.

A comment in a JDL publication, *The Jewish Idea* entitled, *The Chosen*, states:

"We are different! We are a Chosen One and a Special One; selected for purity and holiness, and to rise above all others and to teach them the truth for purity and holiness that we have been taught. There is no reason or purpose to being a Jew unless there is something intrinsically different about it. No. We are not equal to the Gentiles. We are different. We are higher."

Kahane's rhetoric is perhaps best explained in the following passage of *They Must Go*:

"The Arabs of Israel represent Hillul Hashem (desecration in the name of the Lord) in its starkest form . . . Their transfer from the land of Israel thus becomes more than a political issue. It is a religious issue, a religious obligation, a commandment to *erase* Hillul Hashem . . . Let us remove the Arabs from Israel and bring the redemption."

**THEY MUST GO!"**

**In America**—In Tempe, Arizona, two gasoline bombs containing nails started a



JDL members engaged in target practice.

fire outside of an apartment housing Arizona State University students of Palestinian origins. The words "Death to the PLO" were painted on a student's automobile windshield. Arizona authorities have linked this action to the Phoenix area JDL.

In Bellflower, California, two groups, the newly organized Jewish Defenders, and the Jewish Defense Organization, have claimed responsibility for a number of explosions in the Los Angeles area, designed to intimidate Arab-Americans and Arab students at the local universities and colleges.

Another group, a JDL splinter unit, "Hatikvah Leumi," boasted of placing a bomb in the Washington, D.C., office of the Palestinian Information Office. Luckily, the device failed to go off.

These attacks on Arab-Americans and Arab students have encouraged pathological Arab haters to join the JDL. Several are non-Jews who have converted to Judaism and are lured by the image of the "fighting Jew." The case of James ("Eli Hazeev") Mahon is typical. Nicknamed "the Wolf," Mahon joined Kahane's group shortly after his conversion and fol-

lowed him to the West Bank in Israel. Kahane and Mahon formed a JDL terrorist group there called Kach, which simply means "Thus!" and embarked upon a campaign of terrorizing the inhabitants of the Arab sections of the West Bank.

On May 2, 1980, James "Hazeev" Mahon was shot and killed with several other Kach members by enraged Arabs in the city of Hebron.

In the past, Soviet organizations in the U.S. such as Intourist and Aeroflot airlines were the primary JDL targets. Today, Arab-Americans are feeling the JDL threat.

**American Camps**—In the bucolic countryside surrounding the peaceful little village of Woodridge in upstate New York's Sullivan County, shattering cracks from semiautomatic rifles hit target faces of Ayatollah Khomeini, Yassir Arafat, and Khadafi. A dozen young men wearing black berets or yarmulkes, empty their magazines at the shredded targets, then assault a series of obstacles as part of their advanced street fighting course.

Camp Jedel, the paramilitary training camp run by the JDL, offers a complete training curriculum to "recreate the militant Old Testament Jew." The three-month training program involves courses in International politics (the approved JDL version), the Old Testament, the Torah, Jewish history and culture, and learning to use the large array of various weapons stored at the camp's arsenal.

"Anybody who preaches 'turn the other cheek' has never been slapped," is the camp's slogan. Kahane has announced plans to open three more camps in the United States.

How will the graduates of Camp Jedel, and other planned camps employ their newly learned skills? In a November 2,

# ZEEERO!

(Zionist Emergency Exile Evacuation Rescue Organization)  
Israel



**KACH**

JEWISH DEFENSE LEAGUE OF ISRAEL



The JDL's ZEEERO! organization believes time is running out for American Jews and they had better immigrate to Israel.

1972 *New York Times* article, Kahane stated: "It is up to the Israeli government to mount a merciless, cold-blooded campaign against Arab targets all over the world." Will the militants produced in America's JDL paramilitary training camps become the executors of such a policy? Kahane considers himself *and* the JDL as part of the Israeli military.

**Extremist Organization**—Kahane's JDL was incorporated under New York State law on September 30, 1968. Headquartered in New York City, it has chapters located in several of the larger metropolitan areas of the U.S. The FBI has classified the JDL as a Jewish extremist organization. The FBI terrorist incident map of the U.S. for 1985 (see page 34 of the November 1986 *American Survival Guide*) attributes four of the seven terrorist incidents recorded that year to Jewish extremist elements, indicating that Jewish extremists have been among the most active terrorists on U.S. soil.

The writings and rhetoric of Meir Kahane have produced at least one JDL arch-terrorist; the notorious Victor Vancier. He joined the JDL at age 14 and in a very short period of time, became the group's chief bomber, master-minding a wave of bombings against Egyptian and Soviet government targets, and Arabs in the U.S.

"Jews need a crazy image now," Vancier stated recently. "If you think the Shiites in Lebanon are capable of fantastic acts of suicidal terrorism, the Jewish underground will strike at targets that will make Americans gasp, 'How could Jews do such things?'"

What these targets are, one can only guess. One could develop wild scenarios, as terrorist intelligence analysts often do, and come up with a staggering array of tempting targets such as the most sacred of Islamic shrines, the Holy Ka'aba in Mecca, mosques and Islamic cultural centers in the U.S. and the embassies of Arab nations. Assassinations of key members of the Arab diplomatic corps and United Nations representatives might be accomplished which could create foreign policy problems for the U.S.

The overwhelming majority of American Jews are offended at the excess of Jewish extremists and their rhetoric and writings advocating a holocaust for Arabs. Most American Jews, like most other Americans, feel that they can maintain their ethnic and religious integrity *and* be part of the United States. Their faith in America's future is solid, and there is no stampede by the American Jewish community to immigrate to Israel and help Kahane and his Kach prepare for their vision of a second holocaust for the Jewish people. •

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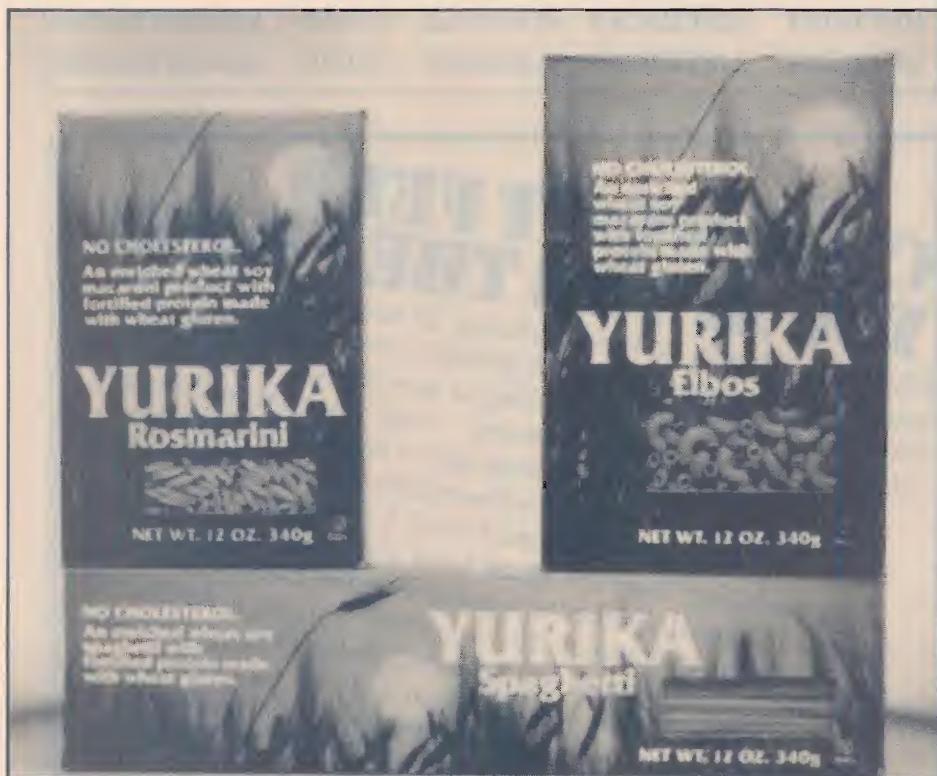


Long Shelf Life:

# Yurika Foods

*These products require no refrigeration, no freezing, have no preservatives and do not need water for preparation . . .*

By Donald B. Clough



Pastas available from Yurika Foods.

**Y**URIKA—I have found it, an expression of the old sourdoughs when they struck gold. This name today stands for a company that sells a quality product line of storage food products.

Yurika's marketing strategy is, "try it, you'll like it." I have eaten and tried everything in their product line and have found these foods to be what the company says they are, quality products.

The food products require *no refrigeration* and *no freezing*, contain *no preservatives* and *do not need water for reconstitution* as they are *not dehydrated*. They are cooked in their own juices.

Yurika uses a unique packaging technique called retorting, which preserves the food by the package it is in. The retort pouch is composed of three layers: poly-

propylene, aluminum foil, and a third thin layer of polyester film.

The inner layer, polypropylene, is an inert and sterile plastic that imparts no odor or taste to the food. The second layer of aluminum foil serves as a moisture and light barrier so no moisture can escape the pouch. It prevents any light and oxygen from seeping into the pouch. The outside layer of polyester film gives the pouch its strength.

NASA spent years of research and development on this packaging technique and it has been used in almost all of their space flights.

The U.S. Military has used this unique packaging technique for years in their ready-to-eat (MREs) meals. The Military has 10 meals, while Yurika offers 19

meals, nine more, giving you a greater selection to choose from. For instance, the Military does not offer cabbage rolls, beef burgundy, lasagna, rainbow trout almandine and chicken breast in wine sauce to name just a few of the extra meals available. Only Yurika does.

Yurika claims a shelf life of five years, the Military claims a shelf life of ten years, but NASA projects a shelf life of 25 years. However, this packaging technique has been tested by NASA for only 14 years and those foods tested have retained their taste, freshness and nutritional value. Experts in the field of retort packaging say that the shelf life of retort meals are indefinite.

Most of Yurika's meat dinners are prepared and packaged in Canada. The Canadians have very strict requirements regarding packaging procedures and Canadian cattle are not allowed to be fed or injected with steroids to accelerate their growth rate, as is allowed in the United States.

The seafood dinners are usually packaged in the U.S. as steroids are not used in seafoods to accelerate their growth rate in the U.S.

Yurika products can be purchased through Local Distribution Centers (LDCs), or directly from the company's main office.

The retort meals can be purchased 10 to a case. Consisting of all the same meals or 10 different meals from LDCs, but if ordering from the main office you can only get 10 of the same meals to a case.

You can purchase paying full retail or if interested, you can become a distributor for \$49 the first year, renewing yearly for \$25 after that.

Becoming a distributor may be a good move. Take for instance, if a case of beef stroganoff which retails for \$38.50 with a wholesale cost of \$28.95 plus 10 percent of \$28.95 (the 10 percent is where the LDCs make their profit). You have put out only \$31.85 wholesale opposed to \$38.50 retail, a cost savings of \$6.65 for a case of 10 meals.



ABOVE—Yurika has 19 retort meals which will store for many years and can be eaten right out of the package or heated.

RIGHT—The retort meals taste best when heated by boiling the food pouch in water for five minutes.

BELOW RIGHT—Drinks from Yurika's extensive product line.

Another interesting fact about the company is that a distributor can sign you up to be a distributor and you can start purchasing the products immediately. Also, you get 5 percent back on what you purchased from the LDCs or the main office. In other words, if you purchase \$100 worth a month you will get back \$5 a month which can be applied to purchasing more of the retort meals.

Yurika's product line is extensive, so if requesting information, ask for the following to get an overall view of the products: Personal Emergency Preparedness Program (P #52); Retort Display Brochure (P #015); Pasta Brochure (P #021); Nutri-Way Brochure (P #027); and ask for a list of LDCs to see if one is located near you.

All information requested from the company will be provided to you free of charge.

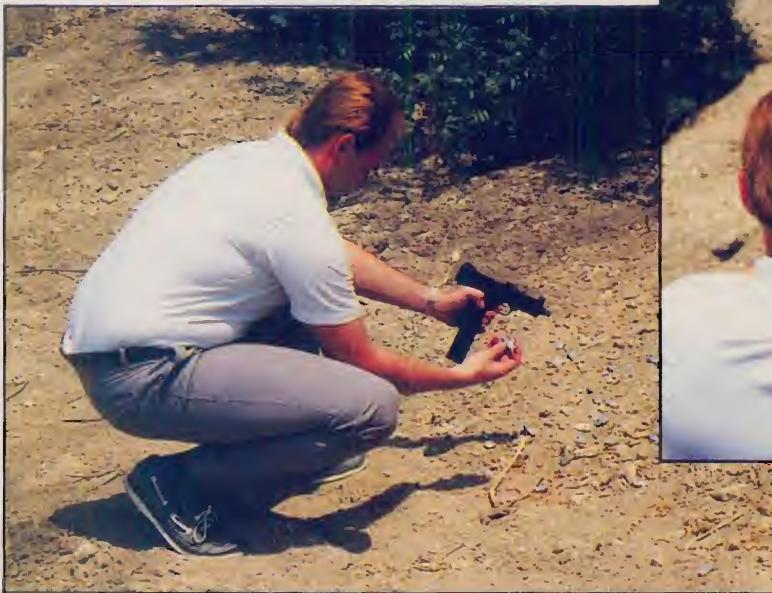
If anyone is interested in obtaining more information about these products call or write: Yurika Foods Corporation, Field Services Department, 33067 Industrial Road, Livonia, MI 48151-3318; (313) 425-6300. ●





LEFT—The Model 85 fires its paint pellets with plastic cartridges using Winchester large pistol primers at a rate of 1,200 rounds per minute—that's 20 rounds per second.

BELLOW—A string of five cartridge cases streams from the Model 85 in a burst at the target some 20 feet away.



The leavings of a few seconds worth of firing.

The red marking pellets penetrated both sides of the cardboard box behind the target and buried themselves in the dirt when fired from 20 feet away. These projectiles could cause serious injury if fired close enough. They can be dangerous up to 300 yards, according to the manufacturer.



**Realistic:**

# Full Auto Splat Gun

*It closely resembles a real machine gun . . .*

By Jim Benson



The Model 85 can be purchased with padded black nylon carrying case.



ABOVE—Reloadable plastic cases with pistol primers are used with the paint pellets.

LEFT—The gun is primarily made of high impact plastic.

**P**ARA-ORDNANCE Manufacturing's Model 85 Dye Marking Tactical Machine Pistol is the only paint ball gun anyone on the staff of this magazine has seen that closely resembles a real machine gun.

Very similar in design and feel to a MAC 10 or MAC 11 machine gun, the Model 85 even shoots like the real thing, using .5 gram gelatin marking pellets fired from 9.53mm plastic casings with Winchester large pistol primers. The splat gun fires these pellets at 1,200 rounds per minute—that's 20 rounds per second! When fired

full auto the casings stream from the ejection port along with smoke from the exploding primers. The manufacturer warns that serious injury can be caused by shooting someone with these pellets, which are said to be dangerous for up to 300 yards.

We're told by The Command Post, which markets the Model 85, that it is used by law enforcement agencies, including the Royal Canadian Mounted Police, for realism in anti-terrorism training. While the Model 85 is just beginning to be used in the numerous survival paint ball games operating in the country, the people hit by these pellets had better have head and body protection, especially if they are hit at

close range.

BATF has classified this weapon as not a real firearm, but we have a feeling it will eventually be banned. It's just too realistic and, yes, downright dangerous at close ranges.

We tried the Model 85 out and, as you can see from the photos here, it's no toy. It operates by blowback and fires 24-round magazines full of the reloadable cartridges. We found that the gun functioned best with less than the full 24 rounds in a magazine. The pellets have a muzzle velocity of 440 feet per second with 3.4 foot pounds of muzzle energy. The gun is made mostly of high impact plastic and weighs (unloaded) only 18 ounces. It has a 5-inch barrel.

One tester who has fired a real MAC 10 said the Model 85 is very similar to the real thing in the way it handles but has less recoil.

If you want the ultimate in full auto paint guns, this is it. And it's legal. Just be careful.

The Model 85 with one magazine sells for \$299.50 from The Command Post, Dept. ASG, P.O. Box 1500, Crestview, FL 32536; (800) 553-POST. Extra magazines are \$29.95 each and ammunition is \$14.50 per 50 rounds. A reloading tool will soon be available which will permit the reuse of the cases for five or six times which will significantly reduce costs. Contact The Command Post for more information at the above address and toll free number or at (904) 682-2492. ●



Defender,  
Persuader:

# Riot Guns

*Budget shotguns for personal defense . . .*

By Robert S. McKay

EVERY year, several manufacturers introduce new pistols, revolvers, machine guns, and assault rifles to the buying public.

Some do well and remain in production, while others crash and burn and are never seen again. But there's one type of gun that hasn't changed much over the last two decades: the pump action shotgun or "riot gun." While expensive automatic shotguns come and go, the old slide action 12 gauge continues to fill the bill for both law enforcement and civilian self-defense.

Two of the best riot guns available today are the Winchester Defender and the Mossberg Persuader models. When it comes to 12 gauge firepower, these two guns have standard features and options that guarantee you a good bang for the buck. In evaluating the two guns, it's almost impossible to choose between them.



The author holds the Defender in his left hand and the Persuader in his right for comparison.



Both guns handled magnum express loads pretty well. Here a shooter fires a magnum load in the Defender from the shoulder.

Even price isn't a major factor. Both retail for as little as \$200.

To see how these guns measured up against one another, the author and two other experienced shooters put them both through a series of handling and firing tests before comparing notes. If you're considering a 12 gauge shotgun for home defense, the following observations might help determine your ultimate choice.

Between them, the Defender and Persuader have most of the features you'd want in a security shotgun. The Defender is available with either a 5- or 8-shot ammo capacity, while the Mossberg comes with either a 6- or 8-shot tubular magazine. Both guns will also chamber 3-inch magnum shotshells as well as standard 2½-inch ammo. When loaded with 3-inch shells, each magazine holds one less round than with regular ammo. This is not a stock feature you'll find with other major brands of pump gun, including H&K, Ithaca, Remington, and S&W offerings.

Although optional models are available in different finishes, the standard Persuader and Defender come with a blued, military non-glare finish. The sighting systems are virtually identical: a bead front post. The Mossberg also has some ribbing atop the receiver to help in sighted shooting, but it isn't much. Unless you're shooting slugs at long range, you don't need sights anyway. Shotguns are made for point shooting at moving targets, like clay birds or burglars on their way up the stairs! Nevertheless, if you want rifle sights, Winchester offers them with their 5-shot model and their stainless Police and Marine versions. Mossberg also offers rifle sights on their 20-inch barrels if you so desire.

When it comes to weight and overall size, both guns are neck-and-neck. The 8-shot version of either gun weighs 6.75 pounds, the 6- or 5-shooters a half-pound less. One difference here—although minor—is in barrel length. While the Win-



Patterns of single-ought buck from 50 yards with the Persuader. This is maximum range for this gun, which put only half its pellets on the target.

chester Defender 8-shot has the minimum 18-inch barrel, the 8-shot Persuader comes with a 20-inch barrel only. Even the 6-shot Mossberg comes with a slightly longer 18.5-inch barrel, although its overall length—37.75 inches—is about an inch shorter than the Defender. We considered these to be very minor differences.

The stocks on these guns are also virtually identical. Both are made of well-finished walnut, the Defender's oiled and the Persuader's lacquered at the factory. The measurements of the stocks are also mirror image of each other; a length of 14 inches, comb drop of 1.5 inches, and heel

drop of 2.5 inches. The Defender comes equipped with a serviceable black recoil pad, the Persuader with a comparable brown one. Not much difference here.

When it comes to safety features, the variance between these two guns is truly minimal. The action bar lock on each gun is a push up lever located on the left side, near the rear of the trigger guard. A right hander can easily activate this lever by reaching beneath the receiver and depressing it with the index finger. Some riot guns like the Ithaca 37 locate the bar lock ahead of the trigger guard, which makes it impossible to get to without changing your grip on the gun.

While the Persuader and Defender have located their manual safeties in different places, both are quite effective. The Mossberg has a sliding button safety atop the receiver, where it is easily visible. The Defender, on the other hand, uses a large push button on the front of the trigger guard. Each is colored coded in red for visual checking. While it's a small difference, we all felt that the Persuader's manual safety was in a better location than that of the Defender.

We also paid close attention to the action bars, forend, and the overall strength of the barrel-to-magazine fit. Both shotguns have twin action bars, although those of the Defender were a bit more stout. Unless you shoot unsized reloads of a lot of magnum ammo, it's unlikely that you'll ever have to "reef" so hard on the forend that you'll bend the action bars.

**Difference**—When it comes to forends, however, there's a world of difference between the Persuader and Defender. While both are made of walnut, the ribbing, diameter, and length are profoundly different. The Persuader forend is 8 inches long, the Defender's 6 inches long. When you reach for the forend to make that first pump, the Persuader gives you more to grope for, especially in the dark. And if your hand slips a bit, a longer forend is better than a short one. We found this to be a major problem with the Defender forend; it simply didn't provide a good gripping surface. The Persuader has 16 deeply cut ribs about 1/8-inch apart for a positive grip, while the Defender comes with 10 shallow ribs 1/4-inch apart. Additionally, the Defender forend is wider in diameter, making it even harder to squeeze for a tight hold. When you consider how vital the forend is in cycling the gun, this difference in design is very significant.

Barrel-to-magazine tube fit is exceptional on both guns. The tubes fit through large rings welded securely to the barrels, and are held in place with the screw-on action tube cap. If you get into a scuffle with either of these guns, you can use the muzzle end as a bludgeon without much chance of damaging them. Although the Mossberg comes with a removable barrel—the Defender is offered in a fixed barrel

only—it locks positively into the receiver and is well supported by the tube. These are both *very* sturdy 12 gauge scatterguns!

Breaking down these two guns is also

pretty simple. To disassemble the Defender receiver requires the removal of only one pin; the Persuader takedown pro-

(Continued on page 61)



The author aims with the Persuader.

## United Kingdom:



British survival publications the author found on his trip to Great Britain. *The Journal of Practical Civil Defense* was reported to have ceased publication.

**E**VEN a cursory knowledge of the imperial history of this island nation tells the tale. The British, who in their heyday of empire had nearly half the world bending a knee to the Queen, are among the toughest people around. They don't make a big posturing thing of it, but under the urbane and often self-effacing exterior one sees in the British Isles is Sheffield steel.

So it should be no surprise to readers of this magazine that there are loads of Brits who are bent on doing more than muddling through, no matter what nasties the future has in store for this country so close to the firing line. There is a growing band of keen survivalists here, brothers in arms, as it



Mick Tyler, second from right, instructs Breakaway Survival School students in land navigation in south Wales.

# British Survivalists

*There are loads of Brits bent on doing more than muddling through, no matter what nasties the future has in store . . .*

By Edward Brown

were, of their Yankee brethren.

The notion of trying to make it in a country as small as Britain if the roof fell in and/or the place was in the hands of an occupation force of hostiles might give some Americans, spoiled by our wide open spaces, considerable pause. Much survivalism is probably predicated on getting away from the large population centers and laying up, either by families or small groups, in the mountains, forests, and even deserts of this vast land. Well, though people have been living in Britain since

before the time of Stonehenge, the place is surprisingly uncrowded. There are large areas of moor and mountain set aside for parkland, and the Town and Country Act assures that remaining open space and farmland won't be gobbled up by housing development. I traveled through the south of England last summer and was amazed at the wealth of open, rolling country, and was told that northerly areas of the country, the big industrial centers aside, had even more in the way of hide-and-seek landscape.



Tyler takes part in a survival exercise foot race in north Wales.

For so small a place, the United Kingdom is amazingly varied in landscape and climate. In some areas of Wales, Scotland, and the north counties, the weather can be as harsh as that of Scandinavia; it's no happenstance that the warmest woolies come from the British Isles, yet in the extreme south, on the Scillies, palm trees flourish. In miniature, the British Isles have almost all the terrain and landforms we've got in the United States.

And British survivalists in growing numbers are concerned with just about the

same things which their brethren over here worry about: making it through the possible future bad times, defense of home and person, foraging and self sufficiency, keeping current on the literature and new developments.

Survivalism in Great Britain came in with the 1980s, says Mike McLaughlin, probably the most prominent spokesman for the movement over there, and perhaps the man who has done more than any other to get things going in the United Kingdom. McLaughlin is an ex-seaman, a big, competent looking type who spends the time he can spare from minding his survival and outdoor shop in Wrexham, Wales, running how-to-stay-alive courses in the inhospitable Welsh mountains.

McLaughlin's *The Survivalist* had over 20,000 readers at last count, a considerable number in the British Isles, and his shop, Rucksack 'n' Rifle, is probably the best place in the whole of Britain to get hardcore survivalist items such as snares, packs, airguns, UK forces camouflage gear, and above all, any kind of outdoor knife worth having. It's become a kind of informal meeting place for like-minded people, and with Rucksack 'n' Rifle's half a hundred used and new guns for sale, glass cases full of knives, and gear hung from pegboards all over the walls, it's a survivalist browser's paradise.

"Bearing in mind that there's always been something of a survivalism and self-sufficiency movement over here in groups such as the Boy Scouts," says McLaughlin, "widespread interest from the public began about half a dozen years ago. A company known as "Survival Aids" started to produce survival equipment and kits and we came on the scene with Rucksack 'n' Rifle about three years later. After that, things just mushroomed. There must be any number of similar shops now."

"Why it all began at that time, I don't know," McLaughlin continues. "Public interest was there, perhaps owing to the recent publication of survivalist and outdoor books and the like, and we simply began catering to a need, and were almost pushed in that direction by the interest. We didn't start it: we just went the way the wind was blowing."

As to who is involved with survivalism in Britain, the movement attracts everybody and anybody, short of the titled folk in manor houses and castles. "It really does cut across class here, and in that sense survivalism in Britain makes for an "American" type society in microcosm, a classless one. It's great when you have a Welshman chatting to a Brummie and a Lancastrian talking gun performance with a Scot. Survivalism even minimizes regional differences!"

According to Mike McLaughlin, Brits into survivalism are primarily interested in personal and home protection. "Crime is going through the roof," he says, and this is the absolute first imperative to defend against. A goodly number are interested in



Mike McLaughlin spells out the dos and don'ts of the day's activities to students of his survival course in Wales.

self sufficiency, but virtually none of the people McLaughlin deals with have much time for nuclear self defense.

"Nobody can really understand it, but the attitude seems to be, well, if the unthinkable is about to happen, I'll just go out in the street and face the blast and get the whole thing over with. That's damn silly, but it means both the press and the Campaign for Nuclear Disarmament have been successful in convincing people they'll fry if there is a nuclear exchange, and most seem to hold to this even though it's not true. It is up to us to try to get people off this myth, but it's hard work."

Like the United States Government (but unlike that of the Soviet Union, Switzerland, and half a dozen others), the people running things in Great Britain aren't doing very much to prepare the population to face the consequences and aftermath of a nuclear exchange, but do take a fairly benign stand toward survivalism in general. Though there is a prohibition in Great Britain on wearing the uniforms of a "clandestine army," most of the people interested in survivalism are keen to get some paramilitary training. This could be because National Service, the British draft, has been defunct for a couple of decades, and aside from the ex-professionals, there aren't many around anymore with military training in their backgrounds, and survivalists particularly feel

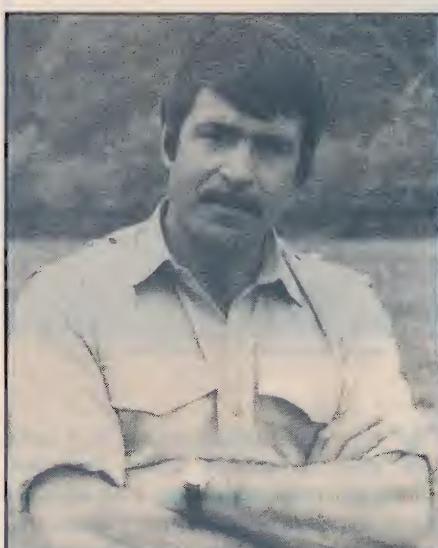
this lack.

**Publications**—There have been at least three first rate survivalist periodicals in Britain—*The Survivalist*, published by Mike McLaughlin, a tabloid-type newsheet of a dozen or more pages; *Survival Weaponry and Techniques*, a glossy monthly on the order of *American Survival Guide* and edited by Greg Payne; and a CD-oriented bimonthly, *The Journal of Practical Civil Defense*, published by C. Bruce Sibley, American readers would be right at home with most of the content of these publications, particularly the first two mentioned. There are pictures featured on bow hunting, combat shotgunning, do-it-yourself projects for equipment, notes on foraging, and ways to stay warm in the British winter (a problem, since it's often not only cold over there, but wet as well). Even the ads look familiar, brand name (Gerber, Kershaw, EK) knives, survival kits, field manuals, Bergans packs, etc., etc.

Though field evaluations of both new and standard firearms are seemingly of great interest to British survivalists, given the space devoted to these in the relevant literature, one of the great differences in survivalism on each side of the Atlantic lies in the ready accessibility of firearms to those who regard them as necessary survival tools. The British have never had the frontier ethic which looks upon firearms as part and parcel of household items to be found almost everywhere. The official attitude toward the private ownership of guns is of the traditional—and cautious—European type. In a land where even the police need special permission to carry pistols, handguns are just about out. Still, if a Briton can prove to the satisfaction of his local chief constable that he is of good character with a reasonably "clean sheet," a legitimate member of a gun club, and (a most sensible provision to my mind) that the weapon will be stored in a secure lockup in the house, chances are good he'll get his purchase permit for a rifle.

That premier survival and home defense tool, the shotgun, has been around in this field sports-minded country for centuries and perceived by most Britons as a perfectly respectable rural artifact. There are many around in country closets and on mantels, and if a person of good character says he'd like a shotgun for hunting or trap

(Continued on page 64)



Besides teaching survival courses, McLaughlin puts out *The Survivalist* newspaper and owns Rucksack 'n' Rifle survival store in north Wales.

## Emergency Field Care:

# Amputation

*Proper pre-hospital care for an amputation victim saves the life of the patient and provides the best chance for reattachment of the lost limb . . .*

By Todd M. Stanford

PHOTOS COURTESY OF PLASTIC SURGERY, INC., WHEELING, WEST VIRGINIA



These parts of an accident victim's amputated right arm were successfully reattached and he regained almost full use of the limb.

The author is a West Virginia licensed paramedic and certified emergency medical technician instructor who works as a firefighter and paramedic with the Wheeling, West Virginia Fire Department—The editors.

**Y**OU are visiting relatives in a rural area of another state. You hear shouts for help originating in an adjacent field. As you near the source of the shouts, a worker runs over and says he's going for an ambulance, "old Jake" got his hand caught in the belt.

After travelling a few yards farther you

find a middle-aged male with his right arm wedged between the belt and drive roller of a conveyor system. About half of the lower arm, from the elbow down, is intact. From there, muscle protrudes around a jagged bone end.

The crushed hand, with flaps of skin hanging where the wrist and lower arm used to be, is lying on the ground where it was thrown by the belt.

You attempt to reassure the farmer while applying digital (finger) pressure to a proximal arterial pressure point (between the wound and the heart). A short time later, the local "rescue squad" arrives. After assessing the patient, they apply a tourniquet to the stump. You refrain from pointing out that digital pressure was working effectively.

As they load the patient into the ambulance, you ask what they are going to do with the hand. One of the attendants says, "Nothing, you want it?" amid laughs from the rest of the crew, the doors are shut and the ambulance speeds off through the field, its siren wailing. What should have been done?

As we all know, before anesthesia and aseptic techniques were developed, a victim of traumatic amputation would probably die. If he did not bleed to death infection would claim him eventually. As refinements were made in surgical techniques amputees had a better chance of living, albeit without a limb, at worst, or with a crude prosthetic appliance, at best. Most work at this time was directed toward developing more functional and more life-like prosthetics.

On May 23, 1962, Dr. Ronald Malt replanted an arm on a patient at Massachusetts General Hospital, Boston, Massachusetts. While not fully functional, the arm did stay alive. Thus replantation became another option in dealing with traumatic amputations.

In the past 24 years replantation surgery has progressed to the point where success is measured not by whether or not the limb survives, but rather by how much of the limb's pre-amputation function returns.

Obviously, not every traumatic amputation victim is a candidate for reattachment surgery. As time goes on, the option will be available to more and more patients, as long as they and the amputated part have received proper pre-hospital care, care aimed at providing the surgeon with the best possible candidate for such surgery.

**Types and Differences**—Basically there are three types of amputations. Complete or total amputation occurs when a limb or protrusion is completely severed from the body. Partial amputation describes those injuries where a limb or protrusion is more than 50 percent severed but remains attached to the proximal portion by a relatively small amount of soft tissue. Third, there are "degloving" injuries (complete avulsion). These are basically injuries in which the skin and adipose (fatty) tissue

are removed from a region, leaving the underlying tissue essentially intact. While some may disagree with this being considered a type of amputation, treatment of the recovered skin is identical to that of an amputated limb and is included for that reason. In most cases, a degloving injury, alone, will involve minimal blood loss. Peripheral vasoconstriction (closing of the blood vessels) will speed hemostasis (cessation of bleeding).

When a limb is completely severed several things occur which act to reduce blood loss. After loss of about one liter of blood, affected arteries begin to spasm, partially occluding the vessel. The venous and lymphatic vessels contain valves which prevent a backflow of their respective fluids. The elasticity of the vessels tend to draw them back into the surrounding tissue of the proximal aspect of the limb. The pressure exerted on these vessels by the surrounding tissue tends to force them closed. This effect, coupled with the venous and lymphatic valves and the arterial spasms, tends to greatly reduce blood and fluid loss from a complete amputation.

In a partial amputation the vessels, unless completely severed, will not be able to withdraw into the proximal aspect of the limb. It's obvious that should an artery be lacerated but not severed, the risk of exsanguination (bleeding to death) is much greater than with the other two types of amputations.

**Controlling Bleeding**—No clamps (Kellys, hemostats, etc.) of any type should ever be used on a blood vessel. Clamps are great for shutting off an intravenous (IV) line to administer medication, or for similar uses, but they are emphatically contraindicated for use on blood vessels in the field. When the patient arrives in surgery the width of the clamp must be removed from the vessel before anastomosis (end-to-end attachment of transected vessels) can proceed. By using a clamp, you have provided the surgeon with an even shorter vessel to work with, needlessly.

As with any extremity wound, elevation and direct pressure should first be tried. This should be applied with a sterile surgical sponge or compress moistened with sterile isotonic saline solution. A bandage should then be applied to hold the dressing in place and an elastic bandage ("Ace Wrap") applied on top of this. The elastic bandage should be tight enough to constrict the vessels sufficiently to slow the bleeding. Pneumatic appliances such as MAST (Military Anti Shock Trousers), air splints or even an extra sphygmomanometer (blood pressure cuff) can be used to provide the necessary constriction. If this proves ineffective, digital pressure should be applied to an arterial pressure point proximal to the wound. As a very last resort, a tourniquet can be applied. As wide a band as is practical should be used. Be certain to mark the time of application

somewhere obvious *on the patient*, on the limb beside the tourniquet, or on the patient's forehead with ink or an indelible marker. The tourniquet should only be loosened or removed by a physician, preferably within an hour after it was applied.

When treating a degloving injury, a saline dressing should be used to cover the area and held in place with an appropriate bandage.

Ice should *never* be applied to the proximal portion of the injured limb. The questionable benefits are far outweighed by the potential damage to the tissue from this practice.

**Pre-Hospital Care**—Due to the contradictory nature of this protocol, as well as the admonition not to use ice on the proximal portion of the wound, I would like to point out that these recommendations were obtained from the Department of Microsurgery, New Bellevue Hospital, New York, New York. Since this facility performs approximately 100 successful (return of function) replantations per year, it is the author's opinion that the procedures developed and recommended by Bellevue are the most effective and up to date.

The amputated part should be located and debris rinsed off using isotonic saline solution. It should then be dried using sterile sponges. The open end should then be covered with surgical sponges moistened with saline solution. These should be held in place and the remainder of the limb wrapped, using a *dry* sterile bandage. The part should then be enclosed with a tightly tied plastic bag. This package should then be similarly sealed within a second plastic bag. The double bagging effectively seals out moisture. This package is then placed in a container of ice and completely covered with ice.

In the case of a partial amputation, the same basic procedure should be followed, with the exception, of course, that the bags should not be tied tightly, but rather closed around the intact tissue "bridge."

When dealing with a degloving injury, the surface of the skin normally in contact with underlying tissue should be covered with saline moistened sponges and the "outer" surface covered with dry dressings. It should then be transported as any other amputated body part.

The departure from the previously recommended procedure of covering the entire limb with moistened dressings is designed to alleviate the maceration caused by prolonged contact with moisture. Maceration is the destructive softening of skin by exposure to water. This effect occurs when you soak in the bath tub. The skin on your fingers becomes wrinkled and easily torn. This revision not only makes the surgeon's job a little easier, but it may mean the difference to the patient of having a functional limb or a stump.

It is important that the amputated part be recovered and treated as outlined above —no matter what its condition. Even if it is damaged beyond the point of replantation, it can still supply skin for grafting onto the stump.

The amputated part should have a label affixed to the outside bag, indicating the patient's name, body part enclosed, and the time of amputation.

Avoid getting preoccupied with the search for the amputated part. You are still dealing with a trauma patient and still fighting time. Even though the patient appears stable, he must still receive definitive treatment within that "golden hour." The catch phrase here is "life before limb." It is of little value to save the limb but lose the patient. A suggestion to deal



Here, after surgery, a victim's right arm has been reattached.

## Amputation

with the problem of the hard-to-find limb is to print the packaging requirements on a 3 x 5 card. If difficulty is encountered in retrieving the limb, the card, a bottle of saline, sponges and bandage material can be left with another rescuer or even a family member and the limb transported separately from the patient. While not ideal, this is still a functional alternative.

The importance of time should be stressed to those personnel conducting the search. Once at the hospital the patient must be prepared for surgery. Once in surgery, the bone ends are aligned, then anastomosis of the arteries, then veins, is performed. This all takes time. To maintain viability of the limb for replantation, cold ischemic (interference with blood flow in tissue) time cannot exceed six hours. This means six hours from amputation to revascularization, if the amputated part is

treated as outlined above. Again, time is of the essence.

**Summary**—In the recent past, a replantation was considered successful if the patient did not ultimately lose the limb. Today success is measured by the ultimate return of function to the limb after replantation.

Approximately one-third of the patients referred to Bellevue as possible replantation candidates actually have amputated body parts reattached.

Many things enter into whether or not a patient represents a likely candidate for such surgery. It is up to those of us in the field to provide the best possible, most modern care to our patients before they get to the hospital, and to provide the hospitals with the most likely candidates for successful replantation. •



A right arm amputation with degloving injury of the torso. The severed limb and attached skin from the torso before reattachment surgery.



The right arm degloving amputation victim is prepared for surgery. This man also regained almost full use of the severed limb.

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## Riot Guns

(Continued from page 55)

cedure involves about four simple steps after removal of the barrel. One thing we did like about the Persuader was its dual shell extractors, one on each side of the bolt. If you shoot reloaded shotshells or magnum express ammo, the brass bases will sometimes stick in the chamber and the lip of the extractor will pull right through the rim without removing the shell. This doesn't happen often, but the dual extractor system of the Persuader is, we think, a valuable feature to consider in its favor.

Like most pump action shotguns, the Persuader and Defender both load from the bottom. The Defender has a low-riding, solid shell elevator while the Persuader has a skeletonized type that sits up close to the bolt itself. When it comes to feeding 12 gauge ammo, these guns could eat all day and still take more!

**Testing**—After evaluating these shotguns feature-by-feature, we put them through several days of live fire testing on the range.

First, we worked on simple point shooting from the hip, using factory and reloaded #8 and #9 birdshot. These tests were performed using steel knockdown targets at close combat ranges of less than 10 yards. Almost any shotgun is accurate at this range; we just wanted to see how "pointable" the guns were. After putting 50 rounds through each of them without a miss, we concluded that both the Persuader and Defender were comparable pointers.

The next test involved some torture—for the shooter, not the shotguns! We each took turns firing #0 and #00 Buck magnum express from the shoulder at 15, 25, 35, and 50 yards. After emptying a few boxes of this hot ammo, all of us felt like we had dislocated shoulders, but we couldn't notice any appreciable difference in handling or recoil characteristics between the two shotguns. When attempting rapid strings, however, we did notice that the slippery forend of the Defender slowed down the pumping cycle. If Winchester would simply re-design this one item, it'd have a much better security 12 gauge on the market.

Although accuracy at ranges beyond 1.5 yards isn't essential for a security gun, the results we obtained indicate that these guns would hold their own for hunting or bear protection. At 50 yards, we got very erratic results with both #0 and #00 Buck, often getting less than half the pellets to print on a silhouette. At 30 yards, the Defender consistently kept 9 pellets of #00 Buck on the center-of-mass with its cylinder bore choke, while the Persuader produced a more scattered—but nonetheless adequate—pattern.

(Continued on page 62)

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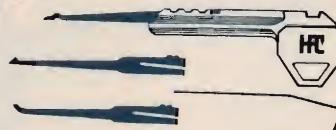
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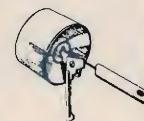


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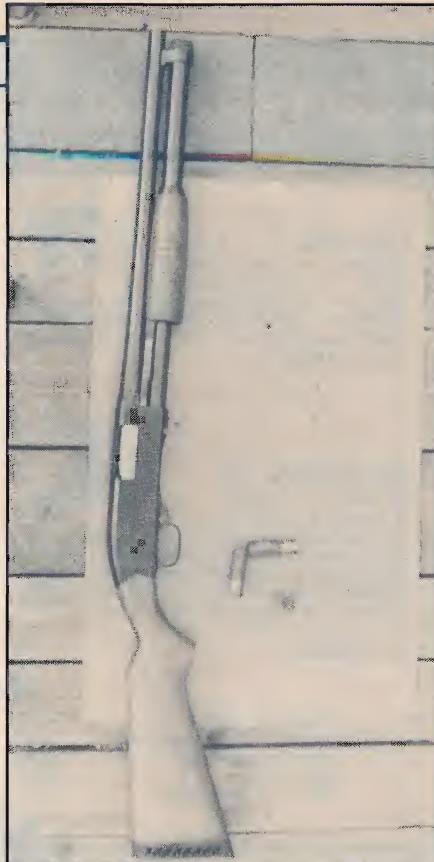
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## Riot Guns

(Continued from page 61)

The last thing we did was to shoot some Federal HP slugs from 50 and 60 yards, using the bead sight. Here, the slight ribbing lane atop the Mossberg provided just enough of an index for better aimed fire; we kept all but two shots on the center of the silhouette. The Defender didn't fare quite so well—we dropped six shots—because it was more difficult to aim with only the bead front post. Again, this isn't very important unless you intend to use the shotgun for hunting or as a military weapon. In your home or business, you won't need slugs and you certainly won't have to take careful aim at some scumball who's creeping in the shadows.

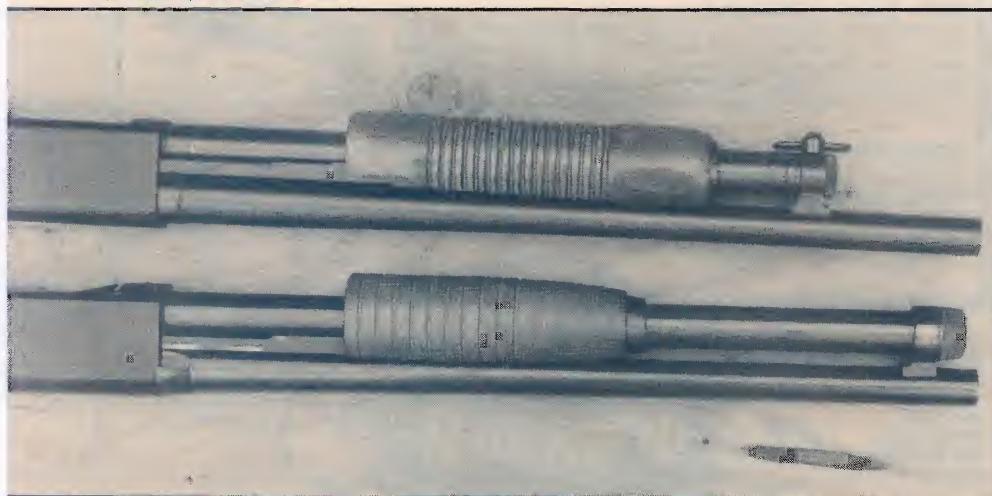
By the last day of testing, we'd put about



Double-ought buck from 30 yards with the Defender. All nine pellets in the center of mass.



Many of the standard features on both guns are hard to choose between, including the quite-adequate recoil pads.



Action bars and forends. Both guns feature stout, twin action bars, while the Persuader has a 6-shot tube and the Defender has an 8-shot tube. The testers preferred the Persuader's longer forend and deeper grooves which facilitated better handling.

### Defender, Persuader: Tech Specs

#### Winchester Defender

Retail Price:	\$198-\$225
Gauge:	12 (3 in. or 2 3/4 in.)
Barrel Length:	18 inches
Weight:	6.75 lbs.
Overall Length:	38.5 inches
Cycling System:	Slide Action
Choke:	Cylinder Bore
Ammo Capacity:	7 shot (3 in.), 5 or 8 shot (2 3/4 in.)
Sights:	Bead or Rifle
Finishes:	Matte blue, stainless, chrome
Stocks:	Hardwood or pistol grip
Features:	Cross bolt safety, front-locking rotating bolt, twin action slide bars, black rubber recoil pad

#### Mossberg Persuader

Retail Price:	Approx. \$185-\$218
Gauge:	12 (2 3/4 in.)
Barrel Length:	18 1/2 or 20 inches
Weight:	6.5 lbs. (6 shot) or 7 lbs. (8 shot)
Overall Length:	37.75 inches or 39.75 inches
Cycling System:	Slide Action
Choke:	Modified
Ammo Capacity:	6 or 8 shot
Sights:	Rifle or Bead
Finishes:	Blue, Parkerized, electroless nickel
Stocks:	Hardwood, pistol grip, folding stock
Features:	Top-mounted safety, twin action slide bars, sling swivels, rubber recoil pad

**Options**—Another nice thing about both these guns is the variety of options available. The Defender also comes in a stainless Police and Marine version, with a stainless barrel and chromed receiver to resist moisture. The Persuader can be obtained in a "file hard" electroless nickel finish if rust is a concern.

If you're looking at either gun for home defense, you might consider one of the pistol grip versions. The Pistol Grip Defender comes with a high-strength ABS plastic grip and forend, both in non-glare matte black. The Persuader pistol grip gun is called the "Cruiser," and can be fitted with sling swivels and even a vented handguard cooler for military or police use.

When you consider all of the aspects we've examined—price, reliability, ammo capacity, durability, options—it's clear that these are two of the best riot guns around for your buying dollar. If you're in the market for a security 12 gauge, you owe it to yourself to take a close look at the Mossberg Persuader and Winchester Defender. You can certainly buy more expensive pump shotguns, but you won't find any that are better! ●

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## British Survivalists

(Continued from page 57)

shooting, the police will usually look with favor on his application.

Incidentally, the side-by-side model has been the preferred shotgun, and indeed practically the only one, in Britain for many years. Pumps and autoloaders, long regarded as "unsporting" by hidebound traditionalists, are now making their presence felt, however, particularly among survival-minded folk. Interestingly enough, as the crime rate in Britain goes up, so follows the increase in shotgun purchase applications among the law-abiding. The number of applications recently in London alone went up 27 percent, causing a bit of worry among the official since they could not discern a like increase in interest in clay pigeon shooting!

The official queasiness regarding the private ownership and use of firearms in Britain does not extend to airguns, and consequently there is a great interest there in these unique, silent, and useful weapons. The magazines are full of ads for both pistols and long guns, and there are many articles on hunting and stalking with airguns as well.

The British realize that an airgun, with its relatively limited power and range, is a natural weapon for people looking to perfect their abilities to blend in with the landscape and get at close quarters to game by stealth.

But perhaps this de-emphasis on the deadlier firearms is not such a bad thing for a growing survivalist movement in a small country. Most survivalists I know shudder with mortification every time some lunatic in bandoleers and camouflage runs amok with a semiautomatic rifle and is immediately labeled a "survivalist" by the national media. The Brits will for the most part be spared that embarrassment.

**Survival Courses**—One of the most impressive aspects of the survival movement in the United Kingdom is the number and quality of hands-on courses in various aspects of survivalism and the allied arts. I did an informal survey of these courses and found that most have certain not unexpected features in common: most are run and staffed by ex-military people, with a high proportion of former SAS, Paras, and Royal Marines; most utilize public parklands in the scenic locales of Britain; and most aim for engendering a sense of will and drive to come through alive in their enrollees.

One such course is run by T.B. Dugdale up in Scotland. Dugdale, still in the "Territorials' (Reserve), as are most of his staff of 15 instructors, runs a six-day survival course and a two-day weekend course, from March through October. Since he's currently a part of the military, Dugdale is forbidden by the Ministry of Defense to



ABOVE, ABOVE RIGHT, RIGHT—Students of Tyler's Breakaway Survival School practice setting traps for small game and making shelters.



emphasize the more arcane military skills in his courses (resisting interrogation, for example), but the wide and varied background of "The Major" and his staff make for a wealth of information and skills on tap to be passed on to his students.

"We prefer to concentrate on the purely survival aspects of the subject, i.e., living off the land and fending for oneself," says Major Dugdale. "Our courses are almost entirely practical with students actually living in the field under instruction. We include nothing which is not relevant to survival, and it all takes place in the natural Scottish border country on the west coast. For 147 pounds the student will get outdoor living, practical instruction in snares, food and water finding, astral navigation, knots, raising improvised shelters, a smattering of primitive medicine, improvised clothing, "plus much more. We cover as much ground as possible in your time with us," says Major Dugdale.

Over to the west and a bit south, Mick "Ginge" Tyler leads survivalist trainees into the harsh Welsh Brecon Beacons National Park, one of the sites of an annual SAS endurance exercise, and he does this all year round. Mick, a former Para and SAS trooper for many years himself, is primarily interested in showing the enrollees in his Breakaway Survival School that if they have the will to make it through tight spots, they're halfway through; he and his instructors will supply the know-how.

One of his students of the Breakaway five-day introductory course said, "The course taught me how to prepare and use nature's resources and to make the most of what is available. We were taught how to build shelters, how to hunt and track animals and fish . . . we also learned how to select what plant life could offer nourishment. I learned how to navigate over difficult terrain, and studied mountain safety techniques amid the spectacular scenery of the Brecon Beacons." And summing up, the graduate expressed succinctly the goal of all survivalists: "It increased my confidence in my own abilities

by looking at problems objectively and overcoming them—and, above all, it made me aware of my own resourcefulness."

The Breakaway weekend course can be had for 50 pounds, the five-day introductory for 25 a day, and the same rate applies for Tyler's advanced courses.

When not in the field, students sleep in the school barn, and like most of the courses in UK, they are expected to provide their own sleeping bags, rucks, and such things as knives. A special "kit" is provided by the school.

An interesting survival course in the "West Country" of Devonshire is headed up by another ex-SAS man, Sergeant A. Pascoe. Pascoe holds his courses in the rugged Dartmoor National Park, known to Yanks as the scene of much of the action in the Sherlock Holmes tale, *The Hound of the Baskervilles*. It's a wilderness of moors and marshes, valleys and granite hills, very desolate and lonely, and perfect survivalist training terrain.

Pascoe's wrinkle which makes his course unique is that it is aimed at youngsters age 14 to 18 (though adults are welcome, too). "Our goal is to give survival skills to the individual, whatever the age, so that he or she can appraise a situation, deal with it in confidence, and walk away from it safely," says Pascoe. "The more we progress into the technical age, the more people forget about the basics. We bring back these skills."

And Sergeant Pascoe gets the kids right into it, as without sleeping bags, tents, or "cookers" they head out on the Dartmoor wastes for the three-day intro, the five-day basic, or the five-day advanced courses in shelter finding, food seeking, field navigation, obstacle crossing and suchlike.

Pascoe's operation is a one man band, and perhaps for this reason he can keep the prices down. "I don't have any classrooms or dormitories, or any expensive goodies: all I have is my experience and knowledge and Dartmoor. I decided to run

these courses for youngsters as there seems to be very little for that age group, and as far as I now, I am the only one in the area with a school designed basically for youngsters. Three days with Pascoe will cost 50 pounds, five days, 65 pounds, and the five-day advanced course, 85 pounds.

**Survival Game**—British hard chargers even have their own brand of "war game." Touted as "More than a mere game—less than a war"—the British survive-in-combat game has all the trimmings of the original Yank counterpart: greased faces, camouflaged field gear, military discipline (or something like it), and guns that go splat.

But there's a difference. After the shooting dies away and there's a general stand-down, participants in the games run by the Tactical Assault Club retire to a luxurious clubhouse for superb food and a chance to refight the day's battle over drinks in front of the fireplace. Sounds a bit like the legendary Valhalla, where Viking warriors fight all day and carouse all night.

Rather than simply a contest of "capture the flag," the British war game involves a tactical scenario "designed to test the courage, initiative, determination, and ability to successfully carry out operations behind enemy lines" of participants.

The gamer is placed in a squad, either an attacking force or a defending force, and goes at it, through paint guns (both rifle and pistol), mines, and booby-traps, and every sort of harassment and obstacle the TAC can think of to make things interesting. A "trial mission" costs 17.25 pounds, with an extra 12 charge for bed and breakfast if the wargamer opts for that. Guns and the first 10 rounds of paint pellet ammunition are provided as part of the fee.

A typical mission of the Tactical Assault Club might be the rescue of a captured officer from enemy commandos holed up in a farmhouse. Gamers would have to infiltrate the farm grounds, assault the force in the farmhouse, grab the hapless captive, and make it back to friendly lines with the irate commandos in hot pursuit.

My short look at British survivalism made it obvious to me that this movement in all its various forms is alive, well, and growing in the United Kingdom, and that although the British variant of survivalism is different, it's still the same. Devotees on both sides of the Atlantic have much more in common than they have at odds. For this breed of individual, in Britain or in the United States, it all boils down to the real meaning of the movement; to continually build up confidence in one's own ability to handle any situation he's confronted with as a direct reflection and appreciation of his own God-given resources and will. •

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## Mountaineering

(Continued from page 19)

the line attached to the V ring. Put the loop down through the V of the V ring connection on the parachute harness and then back up. Put the chest quick ejector snap through the loop and attach it to the V ring chest connection. Dress down the loop on to the quick ejector snap. NOTE: With the V ring secured in this manner, it will not slip left or right and with tension applied, it keeps constant pressure on the quick ejector snap so that it will not come apart.

If you have only a chest strap friction connection, make a single wrap prusik on this webbing. Select one leg strap on the parachute harness and route or cut the quick ejector snap off of it and place it aside. Route the rappel line through the V ring as follows: Make a loop in the rappel line and put it down through the V of the V ring. Bring the loop up through the rectangular portion in the middle of the V ring. Equally separate the rappel line at this point ensuring no twists. Starting from the base of the V ring, place the quick ejector snap through the loop and snap it to the pointed part of the V ring. NOTE: The rappel line can be routed so as to allow for a left or right hand brake. Hold the rappel line firmly in the small of the back as you would do with a regular rappel line.

Anchors are things that you can secure yourself or your rappel line to. Improvised chocks are excellent anchors. They can be made by using quick release fittings and quick ejector snaps. Two female quick release fittings are available if cut from the harness and two male quick release fittings if cut from the parachute risers.

Depending on the type of harness you have two to three quick ejector snaps if routed or cut off, but always two quick ejector snaps if rappelling in the harness. The following materials can be used with



Fastening the rappel line to an improvised chock using a daisy chain sequence. The improvised chock is made with tape webbing and a female quick release fitting.

the quick release fittings and quick ejector snaps to make them functional. Lengths of the harness webbing. Parachute suspension line wrapped through three times in equal loops. All of these will be routed through the base of the quick release fittings and quick ejector snaps. The webbing is best secured with an overhand knot. Secure the ends of the parachute line with a fisherman's or square knot. Position your chocks in the same manner you would regular mountaineering hardware.

**Rappelling**—Rappelling with the improvised rappel line is no different than rappelling with regular equipment. A few things do need to be kept in mind. Rappelling should never be used as a primary means of descent, but to assist you down a steep incline that has poor footing and hand holds. Tie the end of the rappel line to a weighted bag, i.e., a small section of

parachute gore filled with rock or dirt, and throw it over the side you wish to rappel down. Route the rappel line through the modified figure of eight as mentioned earlier. If you have gloves, wear them. Walk normally down the incline while watching each step. For those using the parachute harness modified figure of eight, some manipulation of the quick ejector snap may be needed to allow passage of some knots. To do this, move the wide end of the quick ejector snap back and forth. If rappelling in the rain is necessary or the rain begins while rappelling, the wet rappel line will still offer you the same strength and security as it does dry. Always carry two lengths of suspension line about three feet long to be prepared for unplanned climb using a prusik.

Recovery of your rappel line is very simple. Make a line that is equal in length to the rappel line (The fourth pile of suspension line). Tie this line securely to the end of the short line of the rappel line when using the daisy chain method. Route this line the same way the rappel line is. To deploy this line, tie on a weighted bag. I.e., a small section of gore filled with rock and dirt. Hold the line securely in one hand and throw the end tied to the bag with the other hand down the rappel route. To release the daisy chain knot, pull sharply on the single line until you feel a knot come loose, then pull on the rappel line, alternate and the knot will come loose. NOTE: Do not touch this single line while rappelling and do not route it through the modified figure of eight or it will come loose.

Another method of movement is by climbing with a prusik. This is much slower but is safe if the terrain has poor footing and hand holds. This would be useful if you rappel down and discover you don't really want to be there. The following steps will bring you back up safely.

Tie two prusiks on the rappel line. On

Improvised rappel harness using the NB parachute harness. Shown is the proper routing of the rappel line through the modified figure of eight and the chest "V" ring to the chest connection.



the lower prusik, tie on a three-foot loop. On this loop, tie two overhand knots at one and two foot intervals. On the higher prusik, tie on a six-inch loop that goes through the V ring of your modified figure of eight.

Let your weight rest on the higher prusik. Take the rappel line off the modified figure of eight. Loosen the lower prusik and slide it up to the bottom of the higher prusik. Put a foot in the loop of the lower prusik and stand up. This is your stirrup. Slide the prusik up. Rest weight on the higher prusik. Repeat the last steps until you have climbed to where you want to be. Reverse to descend. Personal preference will dictate if you reverse this procedure to climb and/or descend. I found that this particular way worked for me. When climbing past a knot, loosen the prusik more than usual and work the prusik over it. Remember to dress the prusik down after this is done.

**Safety**—Safety should always be remembered while climbing or rappelling, especially when using this modified equipment. These are a few precautions to remember when using equipment modifications. Never rappel down a vertical or near vertical wall.

When tying knots other than a daisy chain, always finish the knot with a half-hitch.

Always insure that the anchor is strong enough before applying weight.

Always insure that the rappel line is properly secured to the anchor or chock.

Never rappel down the line at a high rate of speed. This will cause unnecessary wear and friction on the rappel line. A sudden stop will cause friction in the knots which will cause them to break.

Do not walk on the rappel line. This will put small cuts in the line which will decrease the life of the line.

When rappelling, do not traverse back and forth across the slope. This may cut the line if it is laying across the jagged edge of a rock.

If using the daisy chain retrieval technique, never route this single line through the modified figure of eight, and on descent never grab this line.

Keep fingers clear of where the rappel line feeds through the modified figure of eight. And remember that climbing or rappelling may not always be necessary.

In conclusion, learning to use parachute equipment together with simple mountaineering skills may be a deciding factor in surviving. It is easy to see the advantages of using all parachute equipment to its fullest extent. You have everything you need for clothing, shelter, rappelling and climbing and you can take it with you when you move. ●

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## Knife Throwing

(Continued from page 25)

others.

Next are two different underhand throws. In the first method the blade is pointed down or forward, and is most often drawn from a sheath or from a sleeve of the opposite arm. Like the open palm style, there is not much power in the throw. The knife is held in a similar manner, except the fingers are lightly wrapped around the handle. Most people will find that arm and shoulder muscles won't allow you to develop much leverage on the back swing, and because of the limit put on the apex of the throwing curve, it is very important to keep the spin as slow as possible. One complete turn is about max with a light knife, two with a heavy knife of 13 ounces or more. This can be remedied and an increase in power obtained with another method.

The second method is more often seen used with a high-rise upside down belt sheath on the throwing arm side, or a sleeve drop rig, on the forearm of the throwing arm. The knife is pulled out of the belt sheath by the end of the handle and held mostly by the thumb and inside ring finger, with the blade next to the back of the arm. If the sleeve rig is used, use a light knife, and make sure the blade is clear of the sleeve after it drops.

The throw itself is the same as the first, except that as the hand is brought back down from the back swing, the knife is allowed to pivot between the ring finger and thumb (light knife), or with more of a full grip with a heavier knife. At the instant the knife starts to drop the elbow must be pointing down and the forearm brought up sharply with the hand, allowing the knife to develop a spin, by bending the wrist to 90 degrees pointing up and opening the fingers, in progression, starting with the little finger and the forefinger and thumb being last. In this way the knife leaves the hand already spinning, and generating speed and power. When executed properly with either light or heavy knife you can hardly see it coming.

**Most Practical Method**—So much for slow boating. Here is the style that for all intents and purposes is the one to learn for hunting or a more true-to-life survival scenario. You have the best of all styles when you throw by the handle, it's effective in that it will get you the most impact, game, and control. The knife handle is the first thing in your hand when you reach for it, by mere virtue of design, that's where it is supposed to be held. Unlike the underhand and the open palm styles, the most powerful muscles in the arm and shoulder are used in this style. Whereas the targets in the underhand and palm styles have to be soft tissue points such as throat, diaphragm, or kidneys because the impact needed to get between ribs or vertebrae is



Knives, Ninja stars or spikes that are thrown from around corners, stairs and windows or other obstacles can be annoying but are usually not deadly for a pursuer.

not developed, the overhand throw can make even a knife of borderline weight get maximum penetration.

I know of a man in Florida who put a Tru-Bal Bowie-Axe (13.5 inches long x 2 inches wide, 3/16-inch thick with a weight of 15 ounces) into a 275-pound boar's right shoulder at a recorded distance of 75 feet. A second knife was thrown at about 50 feet, to kill the animal, and hit just under the neck and cut through into the chest cavity. This example along with many others show that a throwing knife weighing close to one pound can indeed put food on the table. The skill level a throw like that involves means six or more full spins and more luck than I would suggest you count on; however you're the one who has to make the decision.

There are two basic stances for the overhand throw. Start with the shoulders square to the target. If you're right handed put your left foot forward (reverse if left handed), start the windup as the knife comes past the head, unweight the left

foot, slide or take a small step forward as the knife is brought forward, settling your weight back down exactly at the same time as the knife leaves the hand.

In the other stance, the left foot is back. When the knife is drawn back as described, start your step forward. Continue the stride as the knife comes forward. The step must be completed with your foot settling back down exactly as the knife leaves the hand. This will give you more power, but can lead to a tendency to lose sight alignment. If you can keep a good eye on the target and control the bobbing, this is a good stance to use when walking or running towards a target. Just remember to start the windup on the right foot and throw on the left.

The windup starts at the stance-ready position. Hold both arms in front, foot forward, or foot back ready for the step through. Draw the knife arm back as if you were pulling back a bow string or back for a fast ball pitch. Leave the opposite arm out for balance and aid in aiming.

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Harry McEvoy  
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7 Joy St.  
Howard City, MI 49329

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Box 1988  
Orlando, FL 32802

Continue back till the elbow is pointing back and the forearm is up at a 90-degree angle. Take care to have the blade come from the point-up position, (at the start of the windup) to pointing straight back or back and slightly to the opposite shoulder position. From here the wrist and arm are brought forward as if you were dragging the point with it. When the hand is about even with the head, let the opposite arm come down; and here is where the knife starts its return rotation cycle. The point now comes from the trailing, to the up position, and then finally pointing at the target. Here it is released as if it had suddenly became a red hot coal. Do not snap your wrist.

Follow through is where almost all problems start. Use a baseball for practice. You don't snap your wrist when you throw it do you? Well then, don't do it when you throw your knife, otherwise you will never be consistent. Oh maybe you'll get okay after a while, but you'll always take forever learning another knife or take longer to change distances. Bring the cutting edge down as if you were cutting a limb. If you release the knife any time after it has crossed the body it will spin in an oscillating manner; so even if it comes in point first, the side spin will more than likely twist it out of the target. This error is multiplied more so with longer throws. Remember release the knife as it starts to come in-line, and let loose as if it were red hot. Do not snap your wrist.

If you have trouble, go back to the baseball, over and over again.

### Making Corrections After The Throw—

If all has gone well, your knife is now stuck firmly in the target; but most of the time this is not the case. If the knife stuck at all, check the position of the handle. When the handle is pointing up, the knife developed too much of a spin, and would not have stuck at all had you been only a few inches back or had your hand just been a fraction lower on the handle.

So move up 6 inches or so and throw the knife EXACTLY the same as before. You can't make changes in both distance and your normal throw (grip, speed, follow through) and expect to get a feeling or automatic sense of distance. Make every throw at the same speed. You will have time later to learn about hard and fast

throwing.

When the handle is pointing down, the reverse is the case. The knife just barely completed its spin and there it is, already at the target. This happened because you were too close to the target or your hand was too far up on the handle. Slide your right foot back a few inches and throw again; and at the risk of repeating myself make sure you throw it at the same speed.

As I mentioned previously, in both cases you can make corrections by moving your hand up or down on the handle. Now assuming you threw your first knife, with your thumb on the first rivet, and the knife stuck in the target, with the handle up, you could slow down the spin by either moving ahead or you could slide your thumb and hand up, let's say 1/2 inch. The results will be: the knife will leave your hand with a slower spin and the handle will come down. Same thing applies with the under-thrown knives, handle down. Slide your hand down the handle and you will speed up the spin; therefore bringing the handle up.

This is the method you would use when hunting. Never throw your only knife. So, if you make any stopping blow with the first knife and the second is needed, to take the game, your correction can be made without approaching it. This also applies for knives that hit the target and don't stick, keep your eye at the impact point. If the blade is absolutely vertical with the handle up or down, make the same changes, only instead of 6 inches or so back up or move ahead 1 foot. If it comes in backwards, move 2 feet. ●



When a knife lands with the handle up it's at the end of the spin; move forward. When it lands with the handle down it's just beginning a new spin cycle; move back.

## SMOKES



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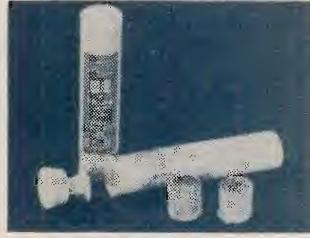
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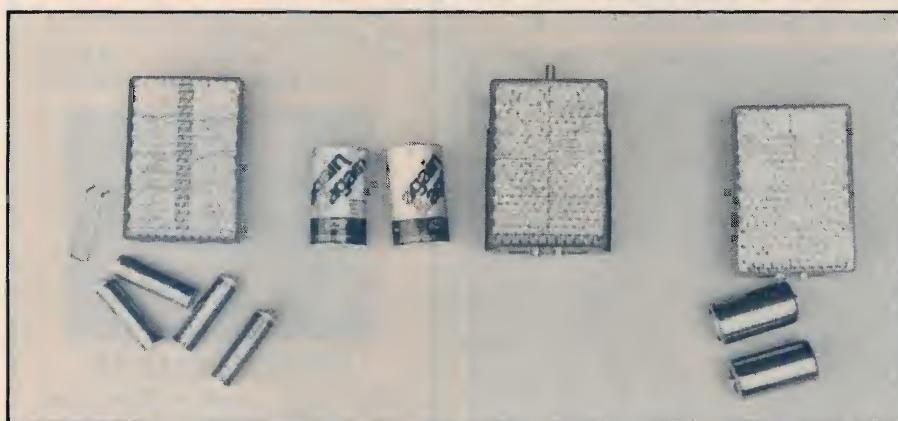
# Solar Battery Rechargers

*Insure your power supply with free energy from the sun . . .*

## Staff Evaluation



The AA, C and D solar battery rechargers hanging in the sun from the eave of a roof.



From left, the AA, D and C solar battery rechargers with rechargeable NiCad batteries from SI.

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and measures 2 3/4 by 3 3/4 by 1 1/2 inches. Each recharger comes with its own hanger attached.

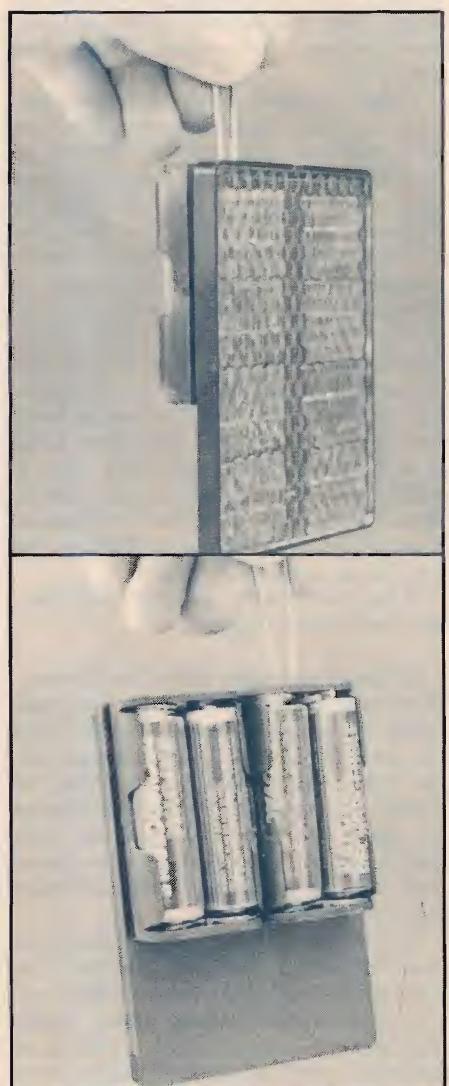
The AA recharger will charge four NiCad batteries at a time. The C and D rechargers each take two batteries.

We purchased the D cell recharger last year from SI along with six D cell NiCad batteries. We hung the recharger from a small nail in the eave of the roof of a staffer's home and exposed the solar panel

on the front of the recharger to about eight hours of sunlight a day. Using a meter, we found that the two batteries were fully charged at 1.25 volts each after about two weeks. These batteries performed about the same as standard alkaline batteries and held their charge for many months in storage.

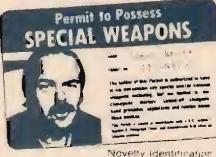
While charging times will vary according to amount of sunlight, time of year and so forth, we recommend these devices as useful alternatives to relying on store-bought batteries.

The solar rechargers are \$22.95 plus \$1.50 S&H each from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; phone toll free outside California (800) 533-7415; in California call (213) 324-8855 or 8859 Monday through Thursday. Rechargeable NiCad batteries are 2 AA batteries for \$6.95 plus \$1.50 S&H; 2 C batteries for \$12.95 plus \$1.50 S&H; 2 D batteries for \$13.95 plus \$1.50. If you prefer, buy 1 AA charger with 4 batteries, for \$32.95 plus \$1.75 S&H; 1 C charger with 2 batteries for \$32.95 plus \$1.75; or 1 D charger with 2 batteries for \$33.95 plus \$1.75. ●



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ASG 0801

**Jacksonville, Florida**, survivalist seeks contact in Jacksonville, Florida, and Waynesville, North Carolina, area. No racists or commies. Purpose is to exchange skills and knowledge.

ASG 0802

**North Carolina**, seeking serious survival personnel & groups to pass on the ultimate survival training and info. Men & women of all states welcome!

ASG 0803

**Colorado Springs, Colorado**, small survivalist group seeks to make contacts or loose associations with others in the area.

ASG 0804

**Eastern Oklahoma**, serious survivalist starting survival camp wants to exchange info and ideas.

ASG 0805

**Seattle, Washington**, single Christian survivalist seeks correspondence/contact with other groups and individuals of like mind in the Pacific Northwest and Canada.

ASG 0806

**Upstate New York, Mountain Area**, interested in contacting survivalists who are of European ancestry. Loyal Americans, militant philosophy.

ASG 0807

**Blacksburg, Virginia**, survivalist, two years plus, seeks other Christian-oriented families. Serious replies please.

ASG 0808

**Hope, Arkansas**, serious survivalist wishes to contact others to start a nationwide communication system to share ideas and information. Only serious survivalists need reply. No kooks, Rambos or commies.

ASG 0809

**Odessa, Texas**, engineer, inventor and former Eagle Scout wishes to form survival group for west Texas and southeastern New Mexico. All versatile, open-minded persons welcome. We will teach needed skills and accept training from other areas of expertise. No Nazis, Klan or Rambos please.

ASG 0810

**Ottawa, Ontario, Canada**, Libertarian survivalist, jack of all outdoor trades, would like to correspond with like-minded individuals for info exchange, networking, perhaps partnership later. Anywhere.

ASG 0811

**Wichita Falls, Texas**, would like to meet survival-oriented persons in the north Texas and south Oklahoma region. Have a little experience in survival training and would appreciate all the help I can get. Experienced in weapons (including maintenance and reloading) and basic first-aid. Medically experienced persons really needed.

Address response letters as follows:

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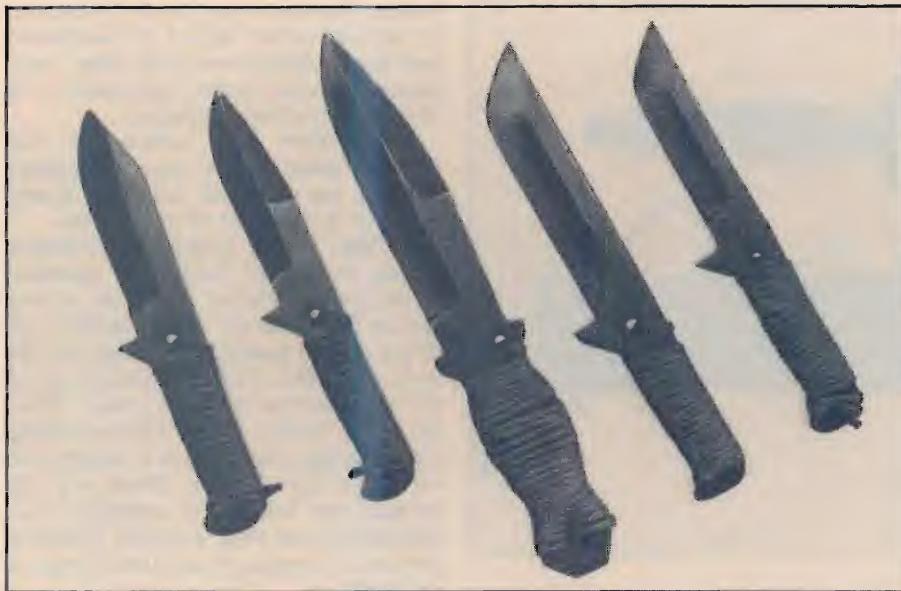
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## Strength, Sharpness:



Martin Kruse skeleton model knives with black oxide finish and parachute cord wrapped handles. From left: Utility, Small Fighter, Combat Field, Large Tanto, Small Tanto. These come with black top grain cowhide sheaths that can be worn for either right-hand or left-hand use of the knives.



Large Tanto is 9½ inches overall with 5½-inch blade.

Each has a handle wrapped with green nylon parachute cord. These knives are workhorses, made to take a razor edge and hold it, and providing the maximum strength for cutting, prying or whatever other use you choose to put them to.

The largest of the models shown here is Kruse's Combat Field Knife, with 6¾-inch blade with California clip point with false edge. It is 12 inches overall and weighs about 15½ ounces. As with all of these models, the Combat Field Knife comes with a top grain black cowhide sheath. It retails for \$85 plus \$5 shipping and handling (lower 48 states).

The Large Tanto model has a 5½-inch blade and is 9½-inches overall, weighing about 10 ounces. It's \$70 plus \$5 S&H.

The Small Tanto sports a 4¾-inch blade and is 9 inches overall, weighing about 8 ounces. Price is \$60 plus \$5 S&H.

The Utility model has a standard clip point with Skinner-style blade about 4½-inches long and is 8¾ inches overall. Weight is about 8¾ ounces. Price is \$60 plus \$5 S&H.

The Small Fighter has a California clip point blade 4½-inches long with false edge. Overall length is 8¾-inches and weight is about 7 ounces. The price is \$65 plus \$5 S&H.

These knives can be ordered directly from Martin Kruse, P.O. Box 487, Reseda, CA 91335; (818) 713-0172. Delivery time depends on available stock and Kruse's workload. Allow up to four months for delivery. Ask for catalog. ●



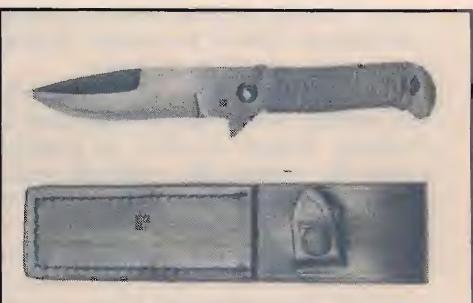
The knives are ¼-inch thick except where they taper to an edge.

**B**EIDES being a general blacksmith, Martin Kruse is a custom knifemaker and bladesmith. Displayed here are a selection of his sturdy skeleton knives. He makes a variety of other blades, including custom knives and swords.

The models shown are exceptionally strong cutting tools. Each knife is made from one piece of 5160 high carbon, low chromium, high manganese spring steel and has a black oxide finish. They are ¼-inch thick except where the blades taper.



The Combat Field Model is 12 inches overall with 6¾-inch blade with California clip point with false edge.



Small Fighter is 8¾ inches overall with 4½-inch blade.

## Exacting Quality:



The Gerber Mark II Survival Knife.

# Gerber Legendary Blades

*The Gerber crew has included some of the best knifemakers in America . . .*

By Jerry Younkins



The Guardian.

THE reader who has any familiarity with knives will recognize the Gerber name. Certainly no other cutlery company has directed more of its energies towards the survival or military markets.

The history of Gerber is approaching the half century mark, having originated in Portland, Oregon, in 1939. Its founder, Joseph R. Gerber, Sr., originally made giveaway knives as presents for a number of his advertising customers. One of America's leading sports retailers, Abercrombie and Fitch, urged Joe to make some knives for them and Gerber Legendary Blades was born.

However, it was the war in Vietnam that

brought Gerber to the forefront of the survival market. 1966 marked the release of the first Mark II Survival Knife and is likely the single most copied fixed-blade knife ever made. The original, today, is a highly valued collector's piece which was designed by retired army captain C.A. Holzman then refined by Gerber's design and research crew. It has a tapered "wasp-waist" blade and aluminum handle that has been coated with droplets of molten stainless steel to enhance the grip.

Even more innovative was the five-degree angle of the blade from the centerline of the knife. This feature allowed the knife to hug the contour of the body when carried and is just one more example of why Gerber became known as a house of ideas.

As the Mark II evolved the angled blade was removed, serrations were added and an all black handle was adopted.

In the fall of 1986, the company released a copy of the original model Mark II in a limited run of 5,000.

To complement the Mark II, a smaller version, in boot knife size, was also released. This knife, the Mark I, has a 4½-inch blade and now comes with a black Cordura sheath.

The current Gerber catalog is a knife

user's fantasy, whether your interests are sportsmen's knives, world renowned kitchen cutlery or a multi-use selection of folders. Needless to say, Gerber's selection of survival knives cannot be overlooked and now includes one of the finest commercial survival knives ever made, the BMF or Basic Multi-Function.

The Gerber crew includes or has included some of the best knifemakers America has produced, including Robert Loveless, Al Mar and Blackie Collins.

In 1985 Gerber acquired BenchMark Knives from R.B. Jenkins, a purchase which provided Gerber with a line of near custom blades for the upscale market. All of the current BenchMark designs are the work of Blackie Collins, certainly one of the most inventive minds in cutlery. There are also a number of new designs coming down the pipe that are sure to interest the survival minded but the details can't be released yet because of copyright considerations. One thing is certain, Gerber is the kind of company that refuses to rest on its laurels.

"High tech" and "state of the art" are expressions that have been overused in some circles. This is not the case at Gerber

where there is a relentless search to improve both design and materials. These include new handle materials, metallurgy, sheath designs and locking mechanisms. The high carbon content of Gerber steels helps both in edge retention and resharpening plus the stainless quality inhibits corrosion. There are many purists who do not like synthetics but I personally do not share this belief. All survivalists should be thankful for the advances in available gear and Gerber has championed these advances.

**Brief Survey**—A brief look at some of their knives is in order and I'll work my way from the small to the large, trying to focus on patterns tailored for the ASG reader.

Gerber was one of the first to offer lightweight knives using the rugged Dupont Zytel for handle materials. Among the patterns where this is used are two of the finest small knives available anywhere, the LST and the Ultralight LST. The initials stand for light, smooth and tough and it's all true. The LST weighs a mere 1.3 ounces while its smaller cousin, the Ultralight, weighs only .6 ounces. They are perfect for everyday pocket use but also ideal because of their small stature for inclusion in a



Guardian II.



ABOVE—The Basic Multi-Function.

compact survival kit. A model of the LST is offered with a camo handle if that suits your fancy.

Robert Loveless designed the Guardian series, currently two models. Loveless is one of America's best known knifemakers but some of his design input on the Guardian is so subtle that it might be overlooked on casual inspection. The Guardian is a small knife with either a black or camo handle and sheath option. It is the handle design that I find so outstanding for it contours near the hilt to form a good grip bond for thumb and hand when held in the intended horizontal position. It may seem a small thing but this is knife savvy.

A recent addition to the Gerber line are the two Clip-Lock models which were "1985 Knife Of The Year" in *Blade Magazine*. On first glance the Clip-Lock might be classified as a boot knife and while it fits this category it was designed for a specific purpose, water sports. Kayakers, rafters, white water guides and divers are some who might see the immediate advantage of this knife. The Clip-Locks are available in two versions, single or double edge, and are skeleton knives, made from a single piece of metal and inherently stronger because of it. Both versions offer serrations for cutting coarse materials such as belts or harness in an emergency. The blades are 3½ inches in length and each weighs but 6 ounces including sheaths. The knives can be removed from the sheath by depressing

the clip in the handle, needing only one hand. This immediate access makes them handy for river sports and has obvious survival application.

The Gerber SOS was a product acquired with BenchMark and is one of the most practical survival knives available. It has a 3-inch blade with serrations and a unique folding sheath that becomes part of the handle when folded open. Four hex holes in the handle can be used as emergency wrenches with the folding cover in safety position.

Also from BenchMark design is the TAC, truly a Space Age knife. It features a

6-inch double-edge blade with serrations near the hilt on both sides. Weight of the entire package is only 4 ounces, due to the fact that both sheath and handle are made of Dupont Zytel. This is an extremely rugged synthetic and the handle has been both contoured and textured to facilitate grip. Blade is non-reflective high carbon stainless. The TAC has what Gerber calls a "rapid" deployment interlocking mechanism," a thumb release that holds the knife into the sheath and allows a silent one-hand draw. The sheath comes with Alice clips and two positions of belt loops so the knife can be worn high or low on the belt or attached to web gear or backpack.

The final knife to be covered in this brief look at Gerber is the BMF, Basic Multi-Function Survival System. I've had a chance for three months to test mine and can see why it is gracing the belts of many U.S. military advisors in Honduras and El Salvador. This knife is an ultra-high tech variation on a theme by James Bowie with an 8½-inch single-edge blade. The Bowie has consistently proven itself on the field of battle and the single edge has no peer for utility use. The BMF has a full tang wrapped with a material called Hypalon from DuPont. This may be the finest material ever put on a tool handle as it cushions while chopping, flexes slightly to provide a hand hugging grip and is impervious to the elements or heat and cold.

The blade has been tempered to a Rockwell hardness of R54-55, lower than on most other survival blades. This was done intentionally to give the blade more flex, make it easier to field sharpen using the diamond hone on the rear of the sheath and still have good edge-holding retention. The knife is available either with or without chisel saw teeth.

The sheath is made from hard wearing Cordura which is reinforced to protect both wearer and knife. An external pocket holds an excellent compass, plus a strap with snap fasteners allows the wearer to attach a pocket knife or accessory pouch to the sheath.

This article has dealt with only a fraction of the Gerber line but the reader can be assured that other Gerber products exhibit the same exacting quality as their survival cutlery. See your knife dealer for more information. ●

RIGHT—TAC II.

BELOW—Blackie Collins' Clip-Lock blades.



## Surplus Military:



COMMUNICATING is essential in our daily lives and becomes more important in survival or emergency situations. I decided some kind of radio gear was needed but ruled out the standard Citizen Band, better known as CB radio. I wanted FM radios for clear reception and line of sight operation. I wasn't interested in communicating with someone 1,500 miles away while I couldn't reach someone around the corner.

The radios I needed would be for short-range communicating. A couple of miles would be great. They would also have to be portable and self contained. The radios I used in the military would be ideal but I thought these weren't available.

One day while reading through the classified ads in back of one of the many gun magazines I subscribe to I spotted an ad offering surplus military radios for sale. The price was right so I sent off my order and waited with anticipation till they arrived.

Delivery took about four weeks. They arrived in excellent condition. The sets I ordered were CPRC/26 Canadian-issue radios which come with collapsible whip antennas, handsets and battery box. Schematics and helpful literature were also included with the radios. The original military batteries are unavailable for these radios but TNM Enterprises, P.O. Box

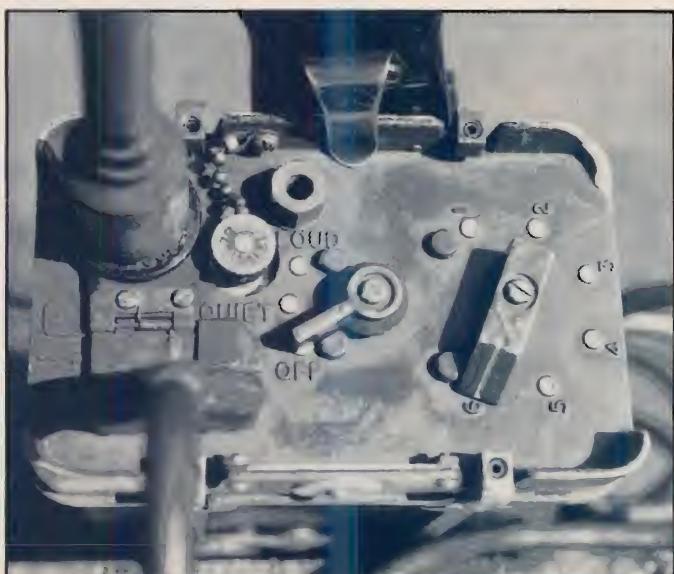
# Short-Range Communications

By  
Robert  
Micciche

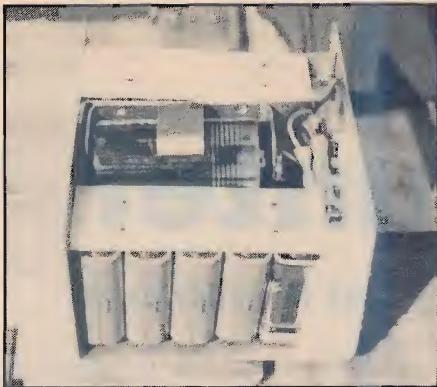
*If you have a need for rugged short-range communication, maybe some surplus radio sets will be just the answer . . .*



The author's Canadian radios with battery adapter.



Close-up of the controls on one of the radios.



The battery adapter.



Plug-in replaceable modules.

2331f, Anaheim, CA 92804, makes a battery adapter which uses common 9-volt and D-size batteries that replace the original battery perfectly. These adapters are very well made and will give you years of service.

The CPRC/26 has 300 milliwatts of power. This isn't much but for short-range, line-of-sight operations it fills the bill. For in and around a base camp or mobile operation this low power is fine.

Repair of these units is child's play as all components are in sealed modules which are replaced in seconds. Just in case, I also ordered some spares for replacement in the future.

The CPRC/26 radio is very low priced and I recommend it to anyone who thinks they might need a short-range communication system. Remember alkaline batteries can be stored for a couple of years and still retain almost all their power.

For a little more money more powerful radios are available and compatible with the CPRC/26. Baytronics, P.O. Box 591, Sandusky, OH 44870, and Fair Radio Sales Co., P.O. Box 1105 Lima, OH 45802, are good sources for these radios. They can also supply you with the many accessories which will enhance the operation of these radios. I was surprised to find 12-volt, 24-volt power supplies, audio amplifiers, hand-held directional antennas and much more in their catalogs.

I now have on order two PRC/10 radio sets which will work with the CPRC/26. This radio has one-watt of transmitting power and a battery adapter for this is also available. Power is no problem with the PRC/10 as the original battery is still manufactured.

If you have a need for rugged short-range communication, maybe some surplus radio sets will be just the answer.

## Mail Call

(Continued from page 23)

fort. I can easily carry four adults, with enough gear to survive a week, and still have extra leg and head room, plus the heater maintains comfort for the passengers as well. As for a four-wheel drive, I wouldn't be without it. Mr. Poe states that the transfer case is not easy to repair in the field. He's right. But then neither is his four or five speed manual transmission. And if a transfer case (or front differential) were to fail, regular two-wheel drive to the rear wheels would still work (and vice versa). And as to the ease of obtaining spare parts, my Chevy has parts interchangeable with any other GM on the road. That is, the 350 V-8 engine and Turbo 350 transmission in any Buick or Cadillac sedan, would bolt right into my truck. I'd like to see anybody try that with different models of imports. And about the "enormous amount of gadgetry subject to failure," the roof lights and winch on my Blazer might fail, but so what? They have their own battery and wiring, and I still have factory lights to drive at night with. But what if you only have factory lights? When they fail, park it till sun up. I'm not saying that a four-wheel drive vehicle is the ideal, all-purpose survival vehicle and nothing else will do. But when given the choice, I would take a four-by any day. I think its advantages greatly outweigh any disadvantages, real or imagined.

Richard B. McSwain  
San Diego, California

*You have some very good points. We don't disagree. We did not present this article as a statement that a small two-wheel drive import truck beats a four-wheel drive vehicle in a survival situation, but rather as one person's opinion about a survival vehicle. The choice of a survival vehicle is each individual's choice based on what they need and prefer or have available to them, etc. We're presenting ideas and information about survival. Much of it is speculation. Each person must decide for him/herself about what works best for their particular circumstances. Thanks for your comments.*

### Water Supply

I would like to see an article on a very important aspect of self reliant/survival living. This is the development of a water supply. How exactly does one make a well without sophisticated equipment? How does one locate where to dig a well? How can one ensure that the water is pure? Are there home test kits? These are some of the questions I would like to see covered in an extensive article (perhaps several articles). By the way, I enjoy your magazine very much. I have not missed an issue since it

was called *Shooters Survival Guide* back in 1981.

Rob Steinmetz  
Trenton, New Jersey

*Good idea, Rob. We'll see what we can do.*

### The AIDS Threat

It seems that some people are still living in the Dark Ages when it comes to the AIDS virus. I do not want to sound like a doomsdayer but I feel that we are surrounded by idiots when I hear people talk about AIDS. Many people think it is a joke and that they could never become a victim or that the government will save them before it's too late. It is time people see the light that there is no such thing as safe sex with a stranger any more, if there ever was. This kind of thinking is poor and rates with such sayings as, "you can't get pregnant the first time . . ." America is on a downhill run and most people will be just going along for the ride unless they change their ways of thinking now, before it's too late. As a survivalist I believe we must take care of ourselves and tell our children that "safe sex" is much more than just using condoms.

Charles D. Murray  
Chattanooga, Tennessee

*There is no question in our minds that AIDS will lead to the deaths of millions of people in the world in the next few years. The promiscuous sexual behavior and "anything goes" lifestyles advocated by some members of society in the 1960s and 1970s have no doubt contributed to the dangers we face today. We agree that it's time to take stock of the dangers and take all appropriate precautions.*

### Car Protection

Most cars today are equipped with electronic ignition systems. In case of a nuclear emergency, these cars could become immobilized from the effects of EMP (electromagnetic pulse). This concerns me. Do you have any suggestions on how I can protect my car from the effects of EMP?

Name and address withheld.

*Our sources say vehicles with the old points and condenser ignition systems will be safe from the effects of EMP, and those persons wishing to protect their vehicles should switch to this type of ignition system if possible or get vehicles with it. We're watching this matter and the discussion and debate about it and we'll report any new developments when we learn of them. Watch for an upcoming article on what one survivalist did to make this GMC four-wheel drive vehicle EMP-resistant. ●*

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### Staff Report



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This knife, like the rest of The Edge Company's automatic line, comes in legal kit form and can be assembled easily. Be sure to check with authorities on the laws governing these knives in your area before you assemble it. An important part of assembly is to be sure you have just the right amount of tension on the brass pin that connects the blade to the handle. Too much tension and the blade will not open properly.

The LeverHunter is \$39.95 plus \$1.50 S&H from The Edge Company, Dept.



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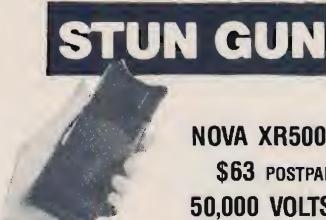
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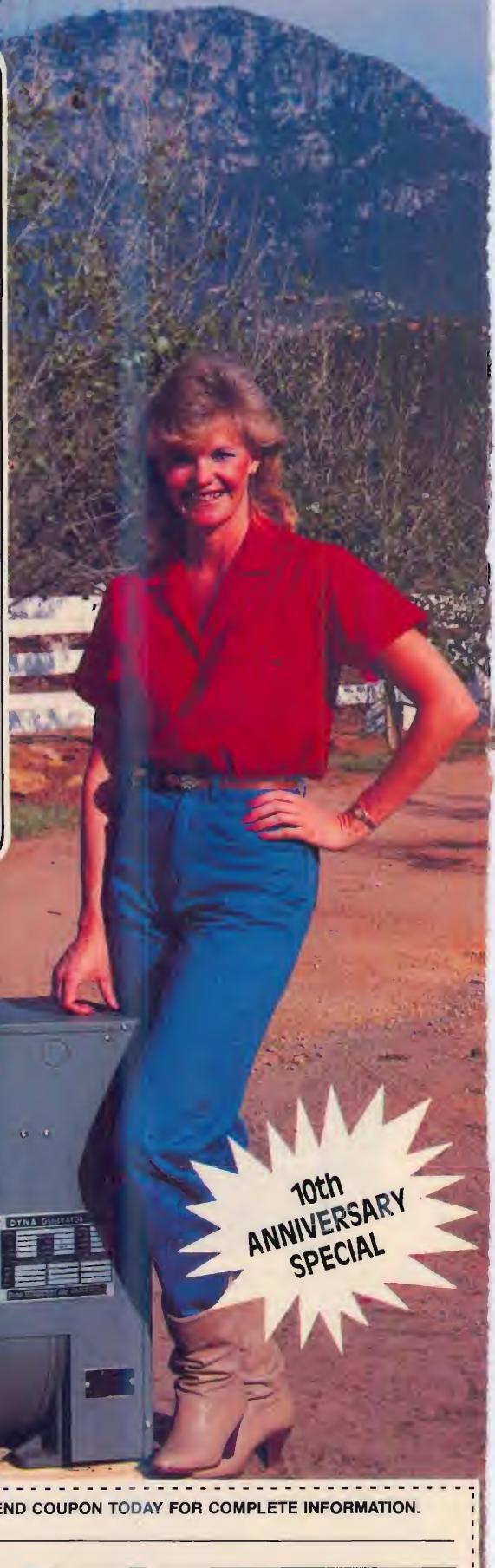
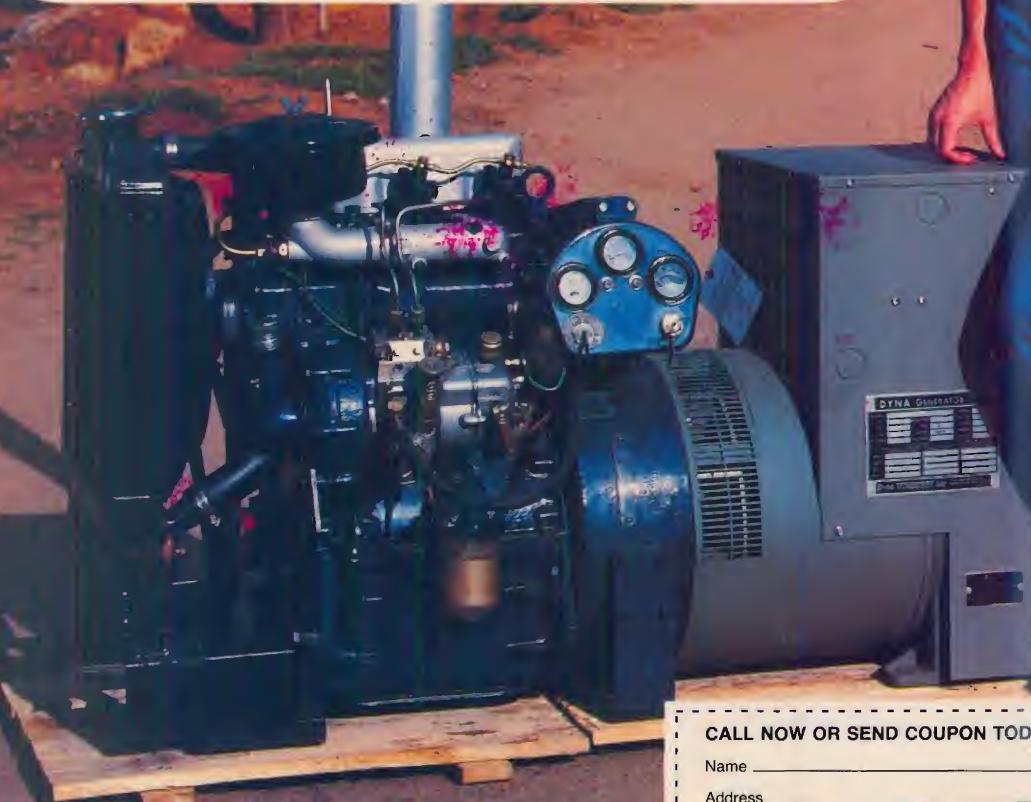
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